## CHEMIST AND DRUGGIST

for RETAILER — WHOLESALER — MANUFACTURER
AUGUST 9, 1952

Increasingly prescribed

IN ALL ALLERGIC AND ANAPHYLACTIC CONDITIONS

#### 'ANTHISAN'

trade mar

brana

MEPYRAMINE MALEATE

characterised by specific antihistamine activity and rapidity of action is presented as 0.05 and 0.10 gramme tablets; an elixir, 2.5 per cent d as a 2.0 per cent

## VERGAN'

E HYDROCHLORIDE

minic with a pron and certain other all in some cases, as 0.01 and 0.025 plets, an elixir, 2.5 plution and as a 2.0 earn.





MAY & BAKER LTD

MA869

Million Clerical States All Million

PHARMACEUTICAL SPECIALITIES (MAY & BAKER) LTD · DAGENHAM

## A FINE TRADITION —

maintained and upheld in many parts of the world by the skill of Scottish Industry.



## T.&H.SMITH LTD.

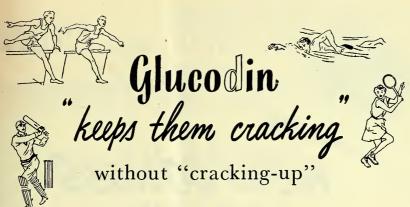
BLANDFIELD CHEMICAL WORKS

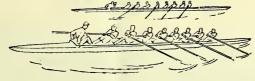
EDINBURGH · SCOTLAND

For Fine Chemicals and Pharmaceutical Preparations including

ESERINE GINGERIN CAPSICIN ATROPINE & SALTS HOMATROPINE & SALTS







Restoring energy is all very well, and there's nothing like GlucoDin for doing it. But why lose so much energy in the first place? Better to keep it at a higher level. Those customers of yours—tiring themselves out at summer sports — they'll thank you for putting them on to GlucoDin. Keeps them fresh, gives them a constant store of stamina, to keep them cracking when the other chap's cracked-up. GlucoDin is pure

medicinal glucose-energy instantly! Sweetening, energising in those cool summer drinks.

Order your supplies today.

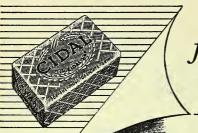
## GLUCODIN

energy - swift and sweet

Face price: 1-lb. carton, 2/10. Trade price per doz.: 25/6 Parcel No. 11: 24 x 1-lb, cartons, £2, 5, 4,

Order parcels direct from Greenford, quoting wholesaler's name for invoicing purposes





## first came CIDAI

the new toilet soap that contains 2% Hexachlorophene

## now comes



CIDAL Cream Shampoo also contains 2% Hexachlorophene—the ingredient with wonderful germicidal properties. It promotes a clean, healthy scalp and, in conjunction with its super-fatted cream, helps to keep the hair soft, gleaming and attractive. CIDAL Shampoo has a rich cleansing lather and is very economical in use. Advertising to the public begins in September.

STOCK UP NOW
WITH CIDAL CREAM
SHAMPOO AND TAKE
ADVANTAGE OF THE
GENEROUS
TRADE TERMS



## EVANS

# Growth factors in Liver

## HEPOVITE Proteolysed Liver Tablets

EACH ONE GRM. TABLET contains 0.5 grm. Proteolysed Liver (Evans), equivalent to approximately 3 grm. of fresh liver.

ADMINISTRATION of liver powder in an average dosage of 1.2 grm. per day for thirteen weeks to children on a normal diet resulted in these children gaining 20% more in height and 40% in weight than a control series who did not receive the supplement. (Yudkin (1952) Brit. med. J. 1,1388.)

PROTEOLYSED LIVER contains factors in addition to strepogenin and vitamin B<sub>12</sub>, which are potent growth stimulants. (Kodicek & Miftry, (1952) *Biochem. J.* 51,108.)

Hepovite Proteolysed Liver Tablets are available in containers of 24. Further information on request to Medical Information Department, Speke, Liverpool, 19.

EVANS MEDICAL SUPPLIES LTD
Liverpool and London

#### **OPTIMISM**

-we are full of it and we are still offering and producing printed ideas and attractive packaging material that will increase your profits.

If you have a new scheme in mind that requires such attention write to

MEDICAL, CARTON & COLOUR PRINTERS **BURLEY ROAD, LEEDS, 4** 

> Phone: LEEDS 52668/9 Grams: "IDEAS" LEEDS

**POWDERS AND TABLETS** 

## Sell Readily and Steadily!

Backed by forceful and continuous advertising!

More aid to the Trade! New range of 'point of sale' advertising material available!

Trade enquiries to: CEPHOS LTD. **BLACKBURN** 



Manufacturers desirous of Opening up the CANADIAN MARKET

> Our Company has been established nearly 100 years and has the facilities and organization for manu acturing and distributing products to the Canadian Chemist Trade.

ENOUIRIES SOLICITED

NORTHROP & LYMAN CO. Limited

Manufacturing Chemists since 1854 . . .

TORONTO, CANADA

ASHWOOD

#### TONGUE DEPRESSORS

IMPORTED—PRE-WAR QUALITY

Size 6" × ½" × 2 m. m, thick. Danish Beech, each one perfectly finished.

Over six million were sold last year without a single complaint.

Price to trade 2 1 / per thousand
(boxed 100's) Minimum order 10,000

FREE OFFER As an introduction a box of 100 will be supplied absolutely free to any genuine trade house on application. Spatulas and applicators also supplied. Write for prices.

ASHWOOD TIMBER INDUSTRIES

Specialists in Veneer and Plywood products for all trades ROYal 2494 IBEX HOUSE, MINORIES, LONDON, E.C.3.

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# Don't miss This special CASH offer! This special CASH offer!

the De Luxe CREAM of CALAMINE

Throughout August—we will give 12/6 cash bonus to all retailers who order 1 doz. 3/6 and 2 doz. 1/9 Esoban Cream of Calamine (33\frac{1}{3}\% discount) and make a 14-day window display. Order through your usual C.F. Wholesaler—advising us when window is ready for inspection. For orders of 3 doz. each size you will receive 13 to the doz. Extra discount of 5\% on £5 and 10\% on £10 orders (supplied direct). Compelling display material to help your sales.

 $Act\ NOW.$  . . and enjoy this extra profit

OUTHON LABORATORIES LTD., 88 Upper Richmond Road, London, S.W.15

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The big Success of the Season!

> VITAMIN C GLUCOSE D

order now -

## VIT-ORANGE

**ENERGY TABLETS** Retail 1/3d. Cost 9/- doz. Tax free attractive showcard and moisture-proof pack

Profitable Line The that is selling at 1/3

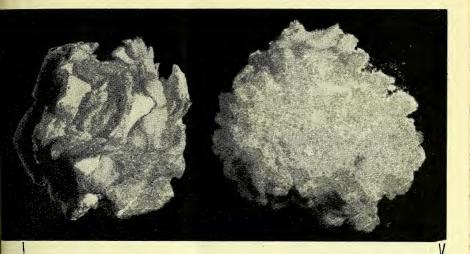


Costing 8/- per doz. Tax free

tubes of 10 tablets
in attractive carton

THOS. GUEST & CO.,

CURRUTHERS ST., MANCHESTER, 4



## Which is softer?

On the left, ordinary soluble sanitary towel filling. On the right the exclusive Modess 'fluffed' filling. You can see at a glance Modess is softer, that it will not chafe, and gives the greatest possible degree of comfort in use. Add to this the other special Modess features—rounded streamlined ends, moisture-repellant backing marked by the blue thread and exceptional degree of absorbency,

and you will understand why Modess towels are preferred for comfort and efficiency in almost every country in the world. Modess Sanitary Towels, made by the largest surgical dressing manufacturers in the world, are uniformly excellent. Whether soluble or cotton wool, they conform to the highest surgical standard of hygiene. In recommending them to your customers you are sure of building goodwill.

## **Modess**

The best Sanitary Towel at any price

softer · safer · streamlined

SOLUBLE OR COTTON WOOL SANITARY TOWELS MADE BY

Johnson of Johnson (GT. BRITAIN) LTD.

## COX OF BRIGHTON

MANUFACTURING CHEMISTS SINCE 1839

Invite your Inquiries for

## PILLS and TABLETS

PACKED OR IN BULK
COATED OR UNCOATED
STANDARD OR SPECIAL FORMULÆ

ARTHUR H. COX & CO. LTD. BRIGHTON, 7, SUSSEX

## **CHOLESTEROL**

(pure)

Substantial quantities of the highest grade are available for immediate delivery at lowest current prices

Enquiries to Bulk Sales Division



#### ORGANON LABORATORIES LTD.

BRETTENHAM HOUSE, LANCASTER PLACE, LONDON, W.C.2

TEMple Bar 6785/6/7, 0251/2

Menformon, Rand, London



Our well-known range of



## FACE SQUARES

is now obtainable in

WHITE, COLOURED,

## JACQUARD, and also CHENILLE BORDERED

as well as our

FAMOUS BARBERS' TOWEL



## UNITED COTTON MILLS LTD.

71 MOSLEY STREET, MANCHESTER, 2 GROVELAND HOUSE, BOW LANE LONDON, E.C.4

## K'S MONTHLY

#### IS ANALYTICAL CONTROL REALLY NECESSARY?

Visiting pharmacists sometimes ask us this question after seeing for themseves the care taken at every stage of production. If each operation is scrutinised so carefully, cannot the result be taken for granted? It is a perfectly reasonable query and the implied compliment is music in our ears. The answer, however, is never in doubt. At Bardsley Vale we never take anything for granted. The Analytical Department sees to that. The functions of this department are indeed interpreted in the most thoroughgoing manner. Not a thing in the works is safe from inquisition. All raw materials have to be approved before being taken into stock. All material in course of manufacture is liable to examination at any stage. Every batch of every product must conform to a standard specification which is always equal to, and usually above, official requirements . . . and it is a fixed principle that the verdict of the Analytical Department must be accepted without question.



Mr. W. E. DOBSON Mr. Dobson has been associated with the Firm for many years and is a well-known figure in the Liverpool area. Despite a severe handicap in his recent loss of a leg, he insists on carrying out his duties as keenly as ever.

The Sodium-Free Salt Substitute which really tastes like Salt— HERASA Therasal is issued in bottles of 50 Grammes & 250 Grammes retailing at 2/6 and 7/6 respectively.

Introduced in May of this year Therasal has advanced steadily in medical favour. There is considerable professional interest in the low-sodium treatment, and here is the ideal substance to restore the savour and tang to diets which are inevitably rather dull and tasteless. We shall be pleased to send samples and diet sheets on request. The menus suggested have been specially devised to include not more than 500 mg. of sodium per day instead of the usual 10 grammes or more.

THERASAL

## Mewsletter



### Useful Aids to Penicillin Dispensing

n addition to the standard Lozenges, Oral Tablets, Ointnent and Ophthalmic Ointment, two useful accessories are ow available for use at the dispensing counter.

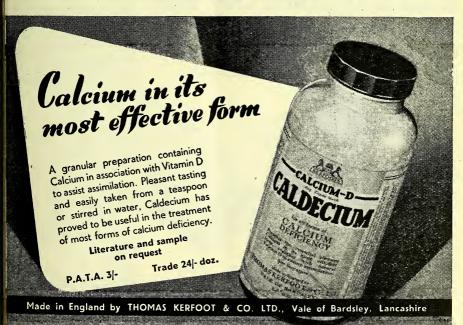
IQUOR PRO GUTTIS WITH SODIUM CITRATE .5% is ideal for the production of Guttae Penicillini .P.C. It is a simple matter to dissolve a Penicillin Solution ablet containing 15,000 units in 110 minims of this plution. Two sizes are available containing m. 110 and 1. 220 respectively.

REAM BASE FOR PENICILLIN CREAM B.P. ssued in glass jars each containing 28 Grammes of base in thich the necessary amount of Penicillin Solution may be adily incorporated.

## STOP PRESS NEWS

Over 4,000,000 copies of the Daily Express will carry a giant KEROFIL toothpaste advertisement on Friday August 22nd.

Make sure you have adequate stocks to meet the rush on this popular line.



# CHILION

Electric

dry shavers

The scientifically designed head of BuK and KuB Electric Shavers contains five self-adjusting spring loaded cutter blades with each cutting edge lapped for extra-close shaving and self-sharpening — a triumph in ingenuity and efficiency. Every head is microscopically examined. The price of the KuB brings it within the reach of all and opens wide the untouched market for Electric Dry Shavers even in these austere days.

Retail Price STILL ONLY

844

TAX PAID

## A BIG ADVERTISING CAMPAIGN

will commence shortly for these TROUBLE-FREE Electric shavers

Steady progressive sales and flattering testimonials fully justify a big campaign.

The Precision made Chilton Electric Shavers do NOT interfere with Wireless or Television.

The set of cutter blades vibrate along their grooves at a very high speed (over 13 million cuts per minute), and ensure the closest quick shave . . . they give an unequalled performance.

B

5 9 8 TAY BAID

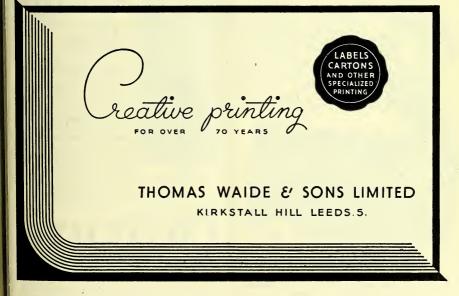
## ORDER TODAY

Order your stock today to meet the certain demand.

CHILTON ELECTRIC PRODUCTS LTD. HUNGERFORD . BERKS . ENGLAND



HEAD OFFICE & WORKS: MANSFIELD ROAD, DERBY. Tel: 48266 (4 lines) Branch Warehouse: Grosvenor St., Ashton under Lyne. Tel: 2816 (3 lines)





This new teat in finest rubber, combines all the Ingram safety famous features. It will withstand repeated sterilization in boiling water and is TESTED FOR FLOW. Available in four distinct shapes, individually packed in attractive display cartons, these new teats deserve the most prominent display.

An intensive publicity campaign is now in full swing. Bold, telling advertisements in the leading women's journals, reaching hundreds of thousands of potential customers mean big business for all stockists. Tie in with this forceful advertising by displaying Ingram's Teats in your window and on your counter...but be sure your stocks are adequate!

EXCLUSIVE

ENSURES Safe FEEDING

## Show 'Elasto'—

It Sells on Sight!

LASTO advertising is widespread and consistent. A steady demand for this product is being created at your very door. Are you taking full advantage of this opportunity for new business created in your area by this vigorous campaign? 'Elasto' salesaids displayed in your window or on your counter will convert the 'prospect' we have created into a customer for you. And remember there is ONE SHILLING and SEVENPENCE PROFIT on each sale!

Show material free on request **NEW ERA LABORATORIES** CECIL HOUSE · HOLBORN VIADUCT · LONDON



# Sensitive

Cuticura Shaving Soap is mildly medicated . . . . your customers will thank you for introducing them to the perfect stick for tender faces. The black and orange plastic holder for this large sized stick attracts the eye: display cartons with each half-dozen make them easy sellers at your counter.

National advertising supports your sales. Cuticura Shaving Sticks retail at 2/2 (Inc. P.T.) Trade price 15/6 doz. P.T. 5/2 doz.

DON'T FORGET QUICK SELLING CUTICURA SOAP Order to-day from NEWBERY & PHILLIPS LTD. Victoria House, Southampton Row, W.C.1. Hol 1564

# Now available\_

## DARAPRIM

#### THE NEW ANTIMALARIAL

'Daraprim' brand Pyrimethamine (2:4-Diamino-5-[4-chlorophenyl]-6-ethylpyrimidine), the new antimalarial announced some months ago, has now undergone clinical trials and is ready for issue.

#### TREATMENT

In many parts of the tropics, a single dose of 50 mgm. (in some cases even less) has been found adequate to clear the parasitæmia and relieve the fever in acute cases of malaria. Some workers, however, prefer to give two doses on consecutive days.

#### SUPPRESSION

'Daraprim' has given highly encouraging results in areas where malaria is endemic. A dose of 25 mgm. given at weekly intervals to the inhabitants of certain isolated villages, has reduced the parasite index from approximately 22 per cent to zero in  $3\frac{1}{2}$  months during the season of transmission.

Although conclusive evidence of its action in non-immunes is not yet available, there are solid grounds for believing that it will prove an excellent suppressant in them.

'Daraprim' is issued as compressed products of 25 mgm., in packs of 6, 30 and 1000. Further information on request to 183-193, Euston Road, London, N.W.1.

In countries within the French Union, available as 'Malocide' brand Pyrimethamine



BURROUGHS WELLCOME & CO. (The Wellcome Foundation Ltd.) LONDON Associated Houses:

NEW YORK MONTREAL SYDNEY CAPE TOWN BOMBAY SHANGHAI BUENOS AIRES CAIRO DUBLIN

Always

remember the name



when you order corks. They are of good texture, and uniform in size.

IT SAVES TIME AND TROUBLE in your dispensing when you use corks which can be relied upon—corks uniform in size and of dependable quality.

That is why so many chemists are using Certor Corks and why you should use them, too. Millions of Certor Corks are used in the course of a year—a tribute to their quality and consistency.

They are available in two grades - Standard and Best.

#### **PRICES**

No.	Oz.	Standard Gross	Best Gross
3	I	I/II 5-grs. bags	3/- 3-grs bags
4	2-4	2/2 ,,	3/6 ,,
5	4-6	2/6 ,,	3/9 "
6	6-8	2/11 ,,	4/- ,,
7	8-10	3/4 "	4/6 "
8	12	3/10 3-grs. bags	5/- ,,
9	16	4/6 "	6/- ,,
10	20	4/11 "	7/- "

Always specify



Goods carriage paid in free packages

MACDONALD & SON LTD., HOPE MILLS, POLLARD STREET, MANCHESTER



below surface attack Effective treatment of "athlete's foot", "dhobie itch" and other dermatophytoses requires that the fungicide be carried to the most deep-seated spores. In 'Tineafax' Ointment the fungicides, chief of which is zinc undecylenate, are incorporated in a base of exceptional penetrating power. The advantages of 'Tineafax' Ointment and its companion product, 'Tineafax' Powder (for prophylaxis), are being detailed to doctors by letter and in advertisements in medical journals. You may therefore expect an increased demand for both preparations during the coming months. 'Tineafax' Ointment is issued in tubes of I oz. and jars of I lb., 'Tineafax' Powder in sifter-top tins containing 40 gm.

when fungus is afoot . . .

## 'TINEAFAX'

OMPOUND UNDECYLENATE OINTMEN

AND UNDECYLENATE POWDER







CONCENTRATED

## DRUG EXTRACTS

for the manufacture of Liquid Extracts, Tinctures, Infusions, Decoctions, etc., etc.

BELLADONNÆ

CASCAR/E

ERGOTÆ •

HAMAMELIDIS

NUCIS VOMICÆ

GENTIANÆ

CARDAMOM • ZINGIBERIS

etc., etc.



WHOLESALE ONLY

STAFFORD ALLEN & SONS LTD., Wharf Rd., London, N.I CLErkenwell 1000

TAS/AL

## SURGICAL DRESSINGS

## SPECIALISTS in the Manufacture of

PURE WHITE ABSORBENT GAUZES, AND BANDAGES

Hospital and B.P.C./N.H.I. Qualities Plain and Sterilised.



WOVEN BLEACHED AND PACKED IN OUR MODERN HYGIENIC FACTORIES AT DUDLEY AND BLACKBURN



SUPPLIERS TO GOVERNMENT DEPARTMENTS, HOSPITALS, WHOLESALERS, ETC.



Manufacturing & Trading Company Limited
RUSSELL HALL DUDLEY - WORGS

## NOW...

a new medicated dog soap

WITH DISTINCT ADVANTAGES

- leaves the coat healthy and glossy
- destroys fleas, lice and ticks
- guards against mange
- protects the hands

pleasant • non-irritant invigorating • insecticidal



## 'TETMOSO

medicated SOAP for dogs

(PHARMACEUTICALS) IMPERIAL CHEMICAL

A subsidiary company of Imperial Chemical Industries Ltd. WILMSLOW, MANCHESTER



Ph.235/1

Take full advantage of the Grand



Photographic Competition for the best Indoor & Outdoor Pictures

OPEN TO ALL



AGFA
ISOLETTE I
CAMERAS
(value £18.9.1
each)



#### TO BE WON IN ALL

Competitors for the Agfa Synchro-Box Flash Gun must possess an Agfa Synchro-Box Camera! Competitors for the Agfa ISOLETTE I Camera must possess an Agfa Synchro-Box Camera, and Synchro-Box Flash Gun!

Make the very utmost of the grand EXTRA business this easy competition will create, stocks. Order NOW!

AGFA LTD.

Deer Park Road, Wimbledon Factory Estate, London, S.W.19 LIBerty 4661

## Which is Goya's most adored perfume...it's "No.5"



Here's the perfumwomen love! It's the fragrance you's sell, again and again . . . Goya's "No.5" perfume anmatching products perfumed cologne, tale, soap, dusting powder and bath essence. This biggest ever promo tion gets under way in August with new advertising! New window uisplays!



#### BLACK AND WHITE!

Leading women's magazines will carry Goya
"No. 5" advertising
from August to
October. Millions of
women will see it!



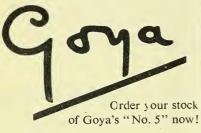
#### THE COLOUR STORY

Sophisticated fullcolour advertisements that breathe an air of romance—that's what Goya has prepared for "No, 5".



#### THE EYES HAVE IT!

See that passers-by gaze at your "No. 5" windows! Use the new window display materials and make sure of your share of the demand for Goya's "No. 5" perfume and fragrance products.



SANCTIONED ON N.H.S. Prescriptions (Form E.C.10)

# EPHAZONE tablets

The rational, symptomatic remedy for bronchial spasm in

#### **ASTHMA & BRONCHITIS**

Containing in each tablet:
Ephedrine ½ grain - Theobromine ½ grair
Phenazone I grain - Calcium gluconate ½ grair
This preparation is not advertised
to the general public.

## **EPHAZONE LTD**

59 BROOK ST. LONDON WI TEL: MAYFAIR 5496



More and more people are realising the unique advantages of a Lastonet surgical stocking which is made to measure, and is so fine as to be invisible under ordinary stockings.

If you want to share in this growing trade we will gladly send you a supply of measurement forms and display



MADE ONLY

E-L-A-S-T-I-C FEATHERWEIGHT NET STOCKING

material.

ASTONET PRODUCTS LTD., Carn Brea, Redruth, Cornwall.

161 NEW BOND STREET . LONDON . WI

pure soap no perfume no colouring no fillings that's



# SIMPLE

SALES ARE RAPIDLY EXPANDING.

Both the Medical and Nursing Professions have responded in a manner far exceeding our own expectations to our advertising and direct mailings.

Be prepared by holding a stock, and take your share of this rapidly expanding line.

Advertising is regularly appearing in a wide range of Medical and Nursing Journals.

#### AMPLE SUPPLIES, PROMPT DELIVERIES

Good profits—reasonably priced. 6/- per dozen, plus 2/- P.T. Retail price IId., showing a profit of 3d. per tablet.

"Simple" Soap makes no claims to medication. Its purity is its only claim to distinction.

Prescribed by Doctors and Dermatologists all over the country, and used in many Hospitals.

## AVAILABLE THROUGH WHOLESALERS OR DIRECT FROM

THE ALBION SOAP CO. LTD.

30/2 THAMES STREET, HAMPTON, MIDDLESEX

AKERS OF THE WORLD FAMOUS ALBION MILK & SULPHUR TOILET SOAP

# 2 How to sell toothbrushes instead of one

When your customers have bought their usual Wisdom, show them the NEW IMPROVED WISDOM COMPACT toothbrush—which is especially designed for holidays, travelling, the handbag or pocket. Tell them that dentists recommend cleaning teeth after every meal, and explain how handy the Wisdom Compact is for use away from home. Demonstrate its smooth, slick action—show how quickly it can be transformed from a neat plastic travelling case into a full-size toothbrush. Nearly every time you will make a sale.

Include the Wisdom Compact in your holiday display, or better still, put the Sell-out on the counter.

Smartly packed in one dozens—assorted colours—one texture. Don't forget you can include the Compact in a quantity order for all types of Wisdom Brushes.

TRADE PRICE 12/11 per doz.
RETAIL PRICE 1/8 each

THE NEW IMPROVED

Wisdom

COMPACT

MADE BY ADDIS LTD., OF HERTFORD

Study the advantages of this NEW

## MANESTY

VARI-SPEED

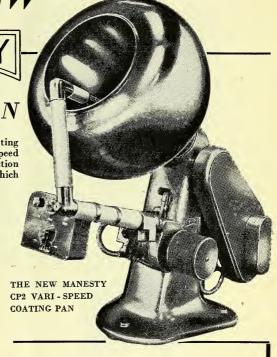
## COATING PAN

The increasing demand for a coating pan with an infinitely variable speed range has resulted in the introduction of a new MANESTY machine which

offers many advantages over earlier designs. This new 'CP2' Vari - Speed model meets the majority of operators' requirements in that the speed of its pan ranges from 12-36 r.p.m. It can be fitted with the latest design Type III/Hot Air Blower which has the following special features :- it is independent of the pan speed; has a 6-speed range (hot or cold), an 18-stage heat control, a new design air disperser and an air filter on the intake. The Hot Air Blower is optional. A constant speed 'CP2' is also available. Write today for fuller details of this new model.

#### Have you this book?

"Tablet Making" — An authoritative volume by A. Little & K. A. Mitchell. 121 pp. 41 illus. 25 formulæ. Cloth bound. 15/- net. Post free.



#### SPECIFICATION

Height of machine (30" pan)		58"
Speed of pan (infinitely variable)		12-36 r.p.m.
Horsepower required		$\dots$ 1 $h.p.$
Speed of motor		1420 r.p.m.
Floor space occupied (inc. pan)		$44'' \times 30''$
Approx. nett weight (pan and stand	l)	540 lb.

### MANESTY MACHINES LIMITED

DEPT. 5

SPEKE

LIVERPOOL 19

Telephone: Hunts Cross 1972

Telegrams: Manesty Liverpool 19

TABLET MACHINES . COATING PANS

GRANULATORS

MIXERS · PUNCHES & DIES



AT PRESENT AVAILABLE

NOW BEING EXTENSIVELY **ADVERTISED** 

IN WELL-KNOWN SPORTING **JOURNALS** 

Price to Chemist

I box: 15/-

3 boxes: 14/9 per box 6 boxes: 14/6 per box

A. L. SIMPKIN & CO. LTD. SHEFFIELD, 6

**USED BY LEADING ATHLETES** IN EVERY FIELD OF SPORT

Simpkins VITAGLUCOSI

Order your cameras NOW



PURMA PLUS £12.12.0

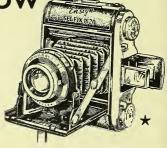


FINETTA IVD f 7.7 £10.18.3 £15.14.0

f 2.8 £17.19.5



FINETTA SUPER f 4 £19.17.10 f 2.8 £22.11.6



ENSIGN SELFIX 16/20 II \* £26.10.4

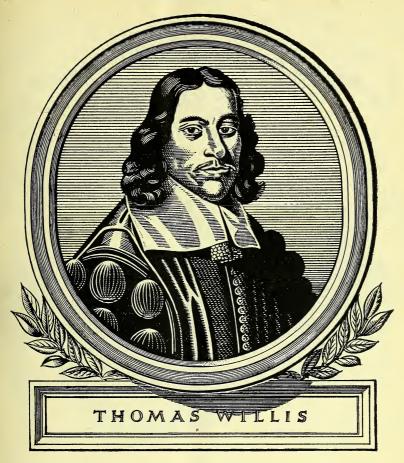
£15.15.4 16/20 1 £24.7.4 8/20 £27.4.8 12/20

RANGER II £10.18.8



THURSDAY

74 NEWMAN ST. LONDON W.I. MUSEUM 7401-2-3

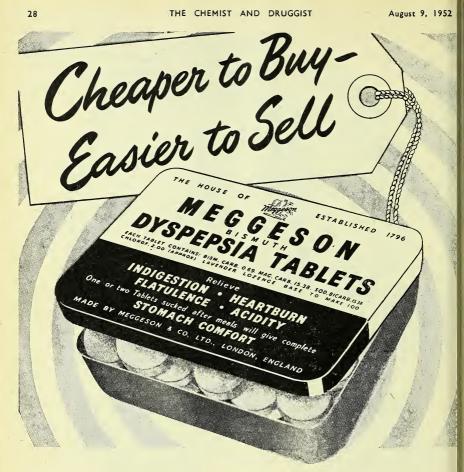


Foremost in diabetes - Diabetes mellitus was first distinguished from diabetes insipidus by Thomas Willis, the 17th century anatomist and physician. His name is indelibly recorded in the annals of diabetic research. The brand name 'Wellcome,' applied to insulins, is held in similarly high esteem by all who dispense or prescribe for the disease. Whichever type of insulin you are asked to supply, a 'Wellcome' brand preparation is available.

WELLCOME' INSULIN (Unmodified or Soluble)
GLOBIN INSULIN (with Zinc)



BURROUGHS WELLCOME & CO. (The Wellcome Foundation Ltd.) LONDON

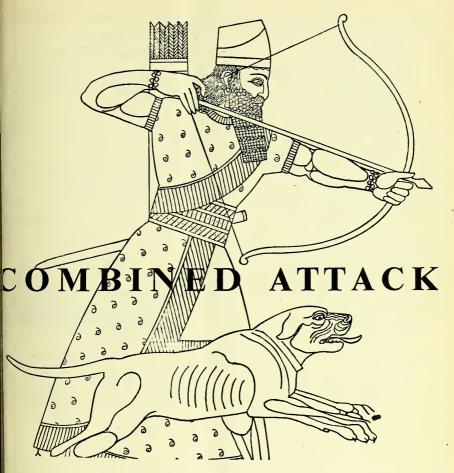


From September, national advertising for Meggeson Bismuth Dyspepsia Tablets on a scale never before attempted (including half-page and quarter-page spaces in the largest-circulation newspapers) will bring new customers to chemists' counters throughout the country. Benefit from this quick turnover. To enable you to carry a small stock at a better profit, new "quantity terms" have been introduced, as follows:

4 doz. 1/9 tins sent carriage paid at 11/- per doz. (normally 12'- per doz.)

POST YOUR ORDER NOW TO:

MEGGESON & CO. LTD., LLEWELLYN STREET, LONDON, S.E.16



he combined use of Mycil Ointment and Mycil Dustg Powder provides effective non-mercurial treatment for hlete's foot and other fungal infections of the skin.

lycil Ointment penetrates deeply to the site of infection. lycil Dusting Powder protects against reinfection after inical cure has been effected and is a useful agent with hich to combat excessive perspiration.

## MYCIL'

HE BRITISH DRUG HOUSES LTD. LONDON N.1



'MYCIL' OINTMENT
in collapsible metal tubes
Trade 1/6 Retail 2/9
'MYCIL'
DUSTING POWDER
in sprinkler tins
Trade 1/6 Retail 2/9



AGAR-AGAR
BALSAM TOLU ORIGINAL IMPORT
GRINDELIA HERB
HYDRASTIS ROOT
LOBELIA HERB
PAPAIN
SABADILLA SEED
SQUILLS-WHITE CUT
WITCH HAZEL LEAVES
WITCH HAZEL BARK
and all other
Botanicals, Gums, Waxes,
Essential Oils and Spices

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Gresham House, 24 OLD BROAD STREET, E.C.2

Telephone: London Wall 4882, 6585, 6586

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May we quote you for—
GLAUBER SALTS B.P.

Pea Crystal and Feathery

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Needle Crystals, Medium, Exsiccated All grades conform to the 1948 B.P. Standard Special Crystals matched and any degree of exsiccation to order. Packed for Home and Export

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GREGGE STREET WORKS
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## TANNIC ACID

(Bulk Supplies Only)

AND DERIVATIVES

THE BRITISH DYEWOOD COMPANY LIMITED

19 St. VINCENT PLACE, GLASGOW, C.I

## GALLIC ACID PYROGALLIC ACID

(RESUBLIMED, PURE CRYSTAL AND TECHNICAL)

AND DERIVATIVES

WHOLESALE AND EXPORT ONLY

J. L. ROSE, LIMITED, ABBEY ROAD, BARKING, ESSEX

# LACTOL HAS NO RIVAL

There is no substitute for Sherley's LACTOL which is the nearest thing to bitch's milk ever produced. Stock LACTOL and your SALES are certain, your PROFITS are certain, your GOODWILL is assured. Retailing at 3/6, 10/6, Kennel Size 37/6.

#### **OTHER SHERLEY WINNERS**

You can make BIG profits, too, from these other SHERLEY winners: Sherley's YEAST TABLETS, Sherley's TAPEWORM TABLETS, Sherley's ROUNDWORM CAPSULES, Sherley's CANKER POWDER in the puffer tins, Sherley's CANKER LOTION Capsules, Sherley's LIQUID SHAMPOO, Sherley's CREAM SHAMPOO FOR DOGS.



iull details from:

A. F. SHERLEY & CO. LTD., 16-18 MARSHALSEA RD., LONDON, S.E.I



AN ALL COTTON WOOL PRODUCT OF REPUTE

Consolute Patent No. 410702 (Registered)

SUPERFINE QUALITY
ALL WOOL SANITARY TOWELS

LOOPED ENDS
NON-ABSORBENT BACK
WHOLESALE ONLY

ROBERT BAILEY & SON, LTD.

SURGICAL DRESSINGS MANUFACTURERS

DYSART STREET. GREAT MOOR, STOCKPORT

SOREX (London) Ltd MAIDSTONE KENT

Obtainable from your usual Wholesaler If any difficulty, write direct to

Attractive Counter Displays and Showcards will make SQUEAK your fastest seller.

Smoo



SOCIETEIT VOOR CHEMISCHE INDUSTRIE

#### "KATWIJK"

KATWIJK - AAN - ZEE HOLLAND

Producers of:

CYCLOBARBITONE (ACID & CALCIUM SALT) PENTAMETHYLENETETRAZOL

(LEPTAZOL. BP)

DIPHANTOINE (PURE, SODIUM, CALCIUM) **SULPHA** drugs

London Agents:

GREYER, BRECHEISEN & CO., Ltd. BUSH LANE HOUSE, CANNON STREET, LONDON, E.C.4. Telephone: MAN 9030 LONDON, E.C.4.

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STANDARD DRUG & CHEMICAL CO.,
174 Hornby Road, Fort, Bombay

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Madras Agent:
THE DOLLAR CO., 337 Thambu Chetty St.,
B G.T. MADRAS

## DISPLAY OUTER WITH PROVED SALES RECORI



Backed by personal a vertising to 7,000,0 readers weekly, tl high-powered Besc bon display outer so on sight. Big sales creases prove it. Us

FREE!

and trusted for 50 years, Besorbon, the year-round preven tive remedy for Colds, Catarrh, Hay Fever, makes mon for every chemist who displays it,

Stocked by principal wholesalers throughout the British Isl

KEMSALES LTD., 20 EASTCHEAP, LONDON, E

The Silky Soft Absorben Tissue that is preferre GLAMAPAK HANKIE TISSUS WANKIE TISS

lanu HANKIE TISSUE RETAILS FROM 1/6d.

Tissues have come to stay—it's jus case of selling the BEST to make an keep customers. VANITY are pr duced by THE PAPER SPECIAL ISTS — packed attractively as come to you in display cartons wort of your windows and counters.

POCKET PACK for Travel, School, e (24 large size White Tissues) 4d.

BOUDOIR CARTONS (100 in White assorted Pastel colours) or Cellophane Wrapp 100 and 180; assorted shades if required.

FREEDER BROTHERS PAPER MILI BRIMSDOWN, ENFIELD, MIDDLESE

Telephone: Howard 1847 (3 lines) Telegrams: Sylkocrepe, Enfield, Middlesex

## Prices of Southalls Santowels reduced

## -but your profit margin goes up

WE ARE GLAD to be able to make this contribution to lower living costs on at least one item which women must buy regularly.

Southalls Santowels can now be sold at lower prices. Quality, however, remains exactly as before (this we will never lower).

This means that more and more women will

now be able to buy Southalls towels which they have always preferred for their unvarying quality and comfort. And by selling them Southalls you will ultimately make more profit because, at the same time, we are increasing your profit margins.

And here's more good news. There are now  $\frac{1}{2}$ -dozen towel packs of 'Original' and 'Soluble' in the popular sizes.

#### Here are the new prices from July 21st, 1952

	Retail	Trade	Whole- sale
"ORIGINAL"         Cotton wool and cellulose pad, with loops         Size 0 — (In packets of one dozen)          Size 1 — , , , , , ,          Size 2 — , , , , , , ,          Size 3 — , , , , , , ,          Size 0 — (In packets of half-dozen)          Size 1 — , , , , , , , , , ,	Packet 2/0 2/3 2/9 3/6 1/0 1/1½	Dozen packets 18/2 20/5 24/11 31/9 9/1 10/3	Dozen packets 16/0 18/0 22/0 28/0 8/0 9/0
"SOLUBLE" (Celtex—New type)  All cellulose pad, with loops Standard (In packets of one dozen) Size 1 — " " " " " " " " " " " " " " " " " "	2/0	18/2	16/0
	2/2	19/8	17/4
	2/5	21/11	19/4
	1/0	9/1	8/0
All cotton wool pad, with loops Size 0 — (In packets of one dozen) Size 1 — , , , , , Size 2 — , , , , , , ,	2/2	19/8	17/4
	2/8	24/2	21/4
	3/2	28/9	25/4
MATERNITY PADS  All cotton wool pad, no loops  Size 4 — Unsterilized (packets one dozen)  Size 4 — Sterilized Singly, , , ,	4/6	40/9	36/0
	5/9	52/2	46/0
"COMPRESSED"  All cotton wool pad, with loops "B" Size 1 (In cartons of one dozen)	CARTON 3/6	DOZEN CARTONS 31/9	DOZEN CARTONS 28/0

## Never run out of Curicones!

There's always a steady demand for the remedy which thousands of Rheumatic sufferers have found the most reliable of all.

Once again its sales this season are showing a healthy growth. Many chemists have found a small counter display pay big dividends.

Why not try the effect of one yourself? Make sure you are carrying ample stocks of both the 5/6 and 26/5 size.

We still have small supplies left of our novel "weather indicator"



showcard. It is most effective and CURICONES surprisingly accurate. Send us your name and address for one and see the interest it attracts.



AND

P.A.T.A.

STEPHEN MATTHEWS & CO. LTD. 19/21 Farringdon Street, London, E.C.4



Obtainable from your usual wholesaler Trade Discount 25% ROZALEX LTD., 10 NORFOLK STREET, MANCHESTER 2

## "SURCO"

RELIABLE

## **ELASTIC HOSIERY**

SEAMED AND SEAMLESS SURGICAL BELTS TRUSSES AND SUNDRIES

Over 50 years' service of everything Surgical

SURGICAL HOSIERY CO. LTD.

T.F. 139



Obtainable from all wholesalers.

A PRODUCT OF EDWARD TAYLOR LTD . MONTON . LANCS

# It really has caught on!

Every care was taken in advance to make this a winning line. Product, pack and advertising were planned together—to ensure that a good product was strikingly presented and backed with the strongest possible selling effort. That policy is paying — big sales are being made all over the country and the selling pressure is being kept up.

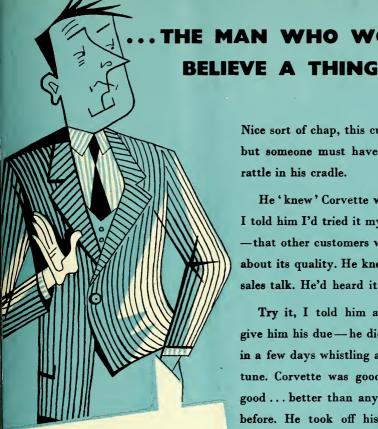
11,000,000 women are reading about TRESS regularly in the biggest circulation Women's journals. Have you ordered from your wholesaler yet?

TRESS

SETS, CURLS, CONDITIONS the hair

The new line in the new, unique pack shake it - and watch its fascinating Silken Swirl! Makes your Set Twice as lovely TRADE PRICES Sells at 2/11d. per bottle, giving many applications. Your cost: 14/3d. per dozen ANOTHER WINNER! plus 100% purchase tax. from the famous house of L'Oreal, from the famous house of fast-selling house of L'Oreal, from the famous house of fast-selling house of the famous house of fast-selling house of L'Oreal, from the famous house of fast-selling house of L'Oreal, from the famous house ho Your profit: 6/6d. per dozen.

Marketed by: GOLDEN LIMITED, 2/4 DEAN STREET, LONDON, W.1. Tel: GERrard 492



Nice sort of chap, this customer of mine but someone must have sold him a dud

rattle in his cradle.

He 'knew' Corvette wasn't any good I told him I'd tried it myself and liked it -that other customers were enthusiastic about its quality. He knew that was just sales talk. He'd heard it all before ...

Try it, I told him a bit stiffly. And give him his due - he did. Back he came in a few days whistling a vastly different tune. Corvette was good . . . refreshingly good ... better than anything he'd tried before. He took off his hat to Goya's men's division. From then on, he said he'd buy the stuff. And oddly enough I believe him.

tere's more profit in Corvette

te is an exceptionally good profit-making line for the t. The shaving bowl earns you a profit of 1/6d, the refill d all other products in the range yield not less than 10d.

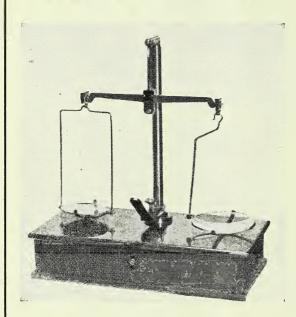
G STICK 3/- · SHAVING BOWL 5/6 · LATHER SHAVING CREAM 3/- · BRUSHLESS G CREAM 3/- · HAIR CREAM 3/6 · BRILLIANTINE 4/- · SOLID BRILLIANTINE 3/6 TALCUM POWDER 4/6 . AFTER SHAVE LOTION 4/-

# Corvette

a new range of matched toilet preparations by Goya (MEN'S DIVISION)

161 NEW BOND STREET LONDON WI

# THE No. 88 DISPENSING BALANCE



Capacity 2 oz.



Complies with Weights & Measures regulations



Guaranteed for 12 months



Made of solid brass throughout, mounted on solid mahogany box and drawer. The beam is fitted with hardened steel knives, cadmium plated to prevent rust.

Sensitivity: 1/3 Grain—Length of Beam: 7 ins.

PRICE:—Lacquered Brass ..... £7.10.0

Chromium Plated ..... £9.10.0

(Weights extra)

BRITTON MALCOLM & CO. LTD.

38 SOUTHWARK BRIDGE ROAD, LONDON, S.E.I. WATerloo 4874-6



DEPENDABLE

case history . .

essential for the

ealth of trade.

wing to an acute case of

aw material shortage, a

hronic lack of containers

as set in . . . to endanger

our future supplies. Chance of

ecovery in this case depends on you.

ive every C.R.S-marked case as long

history as possible—keep each

ontainer carefully until the

.R.S van collects for re-use.

## CONTAINER recovery service

S.P.D. LIMITED, 3-5 SALISBURY SQUARE, LONDON, E.C.4





UNITED GLASS BOTTLE MANUFACTURERS LTD.

8 LEICESTER STREET. W.C.2

GERRARD 8611 (18 Lines) Grams: UNGLABOMAN LESQUARE, LONDON



# **ZAL** Toilet Rolls down to 1/3 retail – 143/- a gross wholesale

HE MOST POPULAR AND HEAVILY ADVERTISED TOILET ROLL

IN THE COUNTRY

NEWTON CHAMBERS & CO. LTD. THORNCLIFFE, Near SHEFFIELD

# A SURE SELLING LINE ZYTOCIN GARLIC TABLETS

for CATARRH, COUGHS and COLDS

Keep a Zytocin display pack on your counter and it cannot fail to bring you quick and ready sales. Extensively advertised, Zytocin tablets contain the active principles of garlic and are Odourless, leaving neither taste nor taint on person or breath. For the relief of CATARRH, COUGHS and COLDS, the powerful aid of ZYTOCIN Garlic Tablets has repeatedly proved invaluable.

Order direct or through your usual wholesaler and meet the demand now created by National Advertising for Zytocin.



22 GREAT SMITH STREET, LONDON, S.W.I.



ZYTOCIN TABLETS

63 TABLETS 21 TABLETS (Full3 weeks 'supply) (7-daytrial pack)
Retail 5/- per tin Retail 1/II per pack
Trade 42/- per doz. Trade 18/- per doz
(Usual Wholesale terms apply)

For British-made

### AMPOULE FILES

PLATED

Consult

DOMINION STEEL CORPORATION LIMITED
"FLEET" WORKS, QUEEN'S ROAD, SHEFFIELD, 2

IMMEDIATE DELIVERY - ORDER NOW!

## SECTO D.D.T.

PRESS BUTTON AEROSOLS
RETAIL 6'9 CHEAPEST AND BEST
CUPAL LTD. (Manufacturing Chemists), BLACKBURN

Sac Quit THE UNIQUE PERFUMED LACQUER REMOVER

NON-SMEARING — NON-DRYING Order from YOUR usual Wholesaler or direct from ANNE SCOTT PREPARATIONS ISB ALCESTER ROAD, BIRMINGHAM, 13

### BURNSIDE'S EUCALYPTUS OILS

Distilled in Australia by the largest distillers and refiners of Eucalyptus Olis in the world.—W. K. BURNSIDE, PTY., LTD., MELBOURNE, AUSTRALIA

80/85% B.P.
Oil Euc. Dives 40/45%
Oil Euc. Citriodora

70/75% B.P. Piperitone 90/95% Oil Euc. Phellandra

UNIFORMITY OF QUALITY CONSISTENCY OF ODOUR

Agents for U.K.: WILSON & MANSFIELD, LTD., 15 Philpot LANE, LONDON, E.C.3

Phone: MANSION HOUSE 9264-5-6 (WHOLESALE ONLY) Grams: WYFIELD, LONDON



Thousands of letters are pouring in praising the new Alka-Seltzer programme from Radio Luxembourg. Every Wednesday at 9.45 p.m. and Sunday at 9.15 p.m. millions are tuning in to 208 metres to hear the famous American vocal team, Curt Massey and Martha Tilton. The hard-selling commercials in each programme are driving home the selling points of Alka-Seltzer. So make sure you get your share of the saleskeep Alka-Seltzer on show. And write today for our attractive show material. scores a great radio success!

Wonderful response to new

Radio Luxembourg **Programme** 

DON S. MOMAND LTD 58 ALBANY STREET, LONDON, N.W.I Sole distributors for MILES LABORATORIES LTD BRIDGEND, SOUTH WALES



A LIQUID PREPARATION intended for use in conditions in which the need for vitamins is above the average. The form in which it is presented makes it ideally suitable for children; also for adults in febrile illnesses, or in infectious or other conditions of the pharynx where there is difficulty in swallowing.

FORMULA One teaspoonful (3.5 cc) contains:

VITAMIN A 2,500 i.u. VITAMIN B<sub>1</sub> 0.5 mg. VITAMIN D 375 i.u.

PRICES

Retail Chemists Wholesale
6 FLUID OUNCE: 3/9 each 40 FLUID OUNCE: 24/- each 16/- each 14/- each 14/- each

### Vitavel Syrup

VITAMINS LIMITED, UPPER MALL, LONDON, W.6

Dr. J. Collis Browne's Chlorodyne and The Pharmacy and Poisons Act, 1933

# Dr.J.Collis Browne's

SALE RESTRICTED TO REGISTERED CHEMISTS

PURCHASER'S SIGNATURE NOT REQUIRED

P. A.T.A.

Sole Proprietors:

J. T. DAVENPORT LTD. UNION ST., LONDON, S.E.I



a New Halex
Rondated Toothbrush
-new all through!

THIS IS IT—not just a toothbrush with softer filaments but a brand-new toothbrush, new all through.

This morning every dental practitioner in Britain will have had news about the Double-Duty in his post-bag. Soon thousands of dentists will have trial toothbrushes. MAY WE SEND YOU A SAMPLE FREE?

You should by now have seen the technical leaflet about the Halex Double-Duty Toothbrush. Would you like to try the brush itself? Just send a post-card and it will come to you by return.

## UNUSUAL AND COMPELLING

With every initial order of a dozen Halex Double-Duty Tooth-brushes a most unusual and eye-catching showcard is available. Don't forget to ask your wholesaler for it when you send him your order.



HALEX LTD.

Highams Park, London, E.4.

## REDUCED PRICES

for SANITARY TOWELS As from 21st July, 1952

Mene WITH "SEWN-ON" LO MOISTURE-PROOF BACK

WITH "SEWN-ON" LOOPS AND

	(e	REGD.	<i>'</i>		Trade Per Gross Towels	Se Per	lling Price doz. Towels	
No.	0				18/2		2/-	
No.	1	•			20/5		2/3	
No.	2			•	24/11		2/9	
No.	3				31/9		3/6	
No.	4				40/9		4/6	



WITH "TIED-ON" LOOPS AND

REGD.		Towels			
NEW XO .	-•	16/8	•	1/10	
STANDARD	:	18/2	•	2/-	
POPULAR XI/T		19/8	•	2/2	

WITH PATENT DETACHABLE "SEWN-ON" LOOPS AND MOISTURE-PROOF BACK

POPULAR XI/S . . . 20/5 . . 2/3

#### MENE ELASTIC BELTS

With Hooks and V-shaped Tabs

. 13/3 per dozen plus 3/4 Purchase Tax Trade. . 1/9 each including Purchase Tax Selling

Manufactured by

SONS LTD. ROBINSON &

CHESTERFIELD & LONDON

# Give them 10P PLACE!

FENNINGS'
CHILDREN'S
Cooling Powders

A good product, with a good demand—well known, and well advertised. Tried and proved by mothers for generations.

Retail at 1/9, 4/3 or 2 powders for  $2\frac{1}{2}$ d.

y many customers do you e each week?...and how y of those have colds or hs. At this time of the year, scially, Fennings' Little lers should be at your finger-Retail price 8d., 1/9 and FENNINGS'
LITTLE
HEALERS

Two famous lines which will help your turnover and your customer. Give them top place when ordering supplies from your wholesaler.

# Fennings'

Fennings' Sulphur Powders

Fennings' Ointment

Fennings' Indigestion Tablets

Fennings' Rheumatic Tablets

Fennings' Children's Cooling Powders
Fennings' Adult Cooling Powders

Fennings' Little Healers

Fennings' Whooping Cough Mixture

Fennings' Fever Mixture

Sales promotion material gladly sent on request.

ALFRED FENNINGS . HORSHAM . SUSSEX



Ribbed Oval ..

The new Beatson Ribbed Oval carries on the tradition of the increasingly popular Beatson Medical.

Available in a wide range of sizes both Cork Mouth and Screw Neck, with either White Enamelled or Black Bakelite Caps.



BEATSON, CLARK & CO. LTD.

Manufacturers of Chemical and Medical Glass
ROTHERHAM · Established 1751 · YORKS

A necessity
in every
dispensary and
laboratory

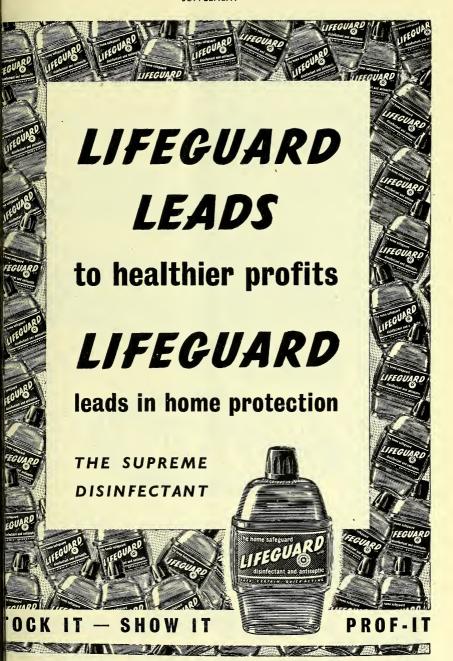
### ... for complete sterilizir

THERMOSTATICALLY CONTROLLED in operation. Full instructions supplied with each appliance.

LIGHT AND HANDY—made from special Aluminium Alloy ECONOMICAL to operate and inexpensive. Cost £16. 16. 0. (excluding gas ring and flexible tubing)



Write for leaflet to JOSEPH SANKEY & SONS L'ALBERT STREET WORKS · BILSTON · STA





This picture is featured in the current He Strained Foods advertisement: " Mod babies are wonderful."

Of course, the babies in Britain toare wonderful. They are the living pr that the Doctors are right to advise early start on Strained Foods.

The modern babies' pictures in He advertisements carry this proof into homes of over 11,000,000 women. T includes your customers, of course ... He wonderful modern babies help build y Strained Foods sales.

## HEINZ STRAINED FOODS

17 varieties: each 7d.

**ASPR** 

Some displays are PASSIVE



Made by ASPRO LIMITED, Slough, Bucks

# 12,677,000 advertisements to help you sell KIGGNGX!



s, we'll soon be backing Kleenex\*

In the biggest advertising campaign
the history of tissue handchiefs in Britain. Advertisements
run in national newspapers,
ional magazines and women's

magazines with a total circulation of 52,677,000!

STOCK and DISPLAY Kleenex NOW! It sells on sight because it's soft, strong—and is the ONLY tissue that pops up one-at-a-time! \*Reg. Trade Mark

RETAIL PRICE

150 ECONOMY SIZE TISSUES (75 pulls) 83" x 63"

1/-

200 REGULAR SIZE TISSUES

2/-

DE IN ENGLAND BY CELLUCOTTON PRODUCTS LTD., 33 AYLMER PARADE, N.2

AGE YOUR ORDER THROUGH YOUR WHOLESALER TODAY!

#### MANUFACTURER'S CLEARING STOCK

### MEN'S LONG WHITE COATS

Made of DRILL

3 for £3

Rigmel Fully Shrunk

SIZES 34" to 46"
Postage 1/6 extra plus 1/2 if C.O.D.

Also

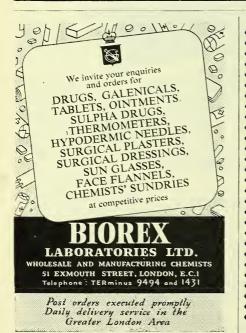
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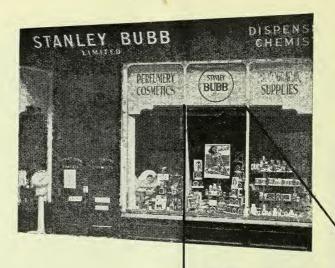
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# CHEMIST AND DRUGGIST

for RETAILER — WHOLESALER — MANUFACTURER

AUGUST 9, 1952

Published weekly at 28 Essex Street, Strand, London, W.C.2

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#### NEWS OF THE WEEK

N.P.U. By-election Result. — In a reent by-election for a member of the puncil of the National Pharmaceutical nion for western division 1, Mr. G. H. ughes, Colwyn Bay, Denbighs, was sucssful.

Insecticide Manufacturers' Association fficers.—The following officers were rently elected by the Association of Brish Insecticide Manufacturers for 1952: hairman, Dr. E. Holmes (Plant Protecton, Ltd.); Vice-chairman, Mr. N. K. aith (Murphy Chemical Co., Ltd.); reasurer, Mr. R. V. Craven (W. J. Cran & Co., Ltd.); and Secretary, Mr. A. Williams, 166 Piccadilly, London.

World Health Organisation. — At the th annual session of the World Health sembly held recently (C. & D., May, p. 631) in Geneva, a resolution was opted instructing the director-general of world Health Organisation to warn imber governments of the danger that emature publicity (for so - called niracle drugs) might jeopardise the alth of their peoples. The Assembly reed that the Organisation should em

bark on a special programme to promote leprosy control.

Congratulations Sent to America.—Alderman W. J. Tristram (president of the Pharmaceutical Society) has left for the United States to attend the centenary conference of the American Pharmaceutical Association being held in Philadelphia on August 20 (see C. & D., June 21, p. 830). He took with him an address of congratulation, engrossed on vellum by the College of Arms, from the pharmacists of Great Britain to the pharmacists of the United States.

Examinations in Salesmanship.—The United Commercial Travellers' Association of Great Britain and Ireland Incorporated have announced that out of a total number of 289 candidates for a recent examination in salesmanship held at twenty centres in London and the Provinces four passed with distinction, ten with credit and ninety-one passed. Copies of the syllabus and examination regulations may be obtained from the general secretary of the Association, 180 Tottenham Court Road, London, W.I.

More Blood Donors.—The Ministry of Health states that there are now more blood donors in England and Wales than at any time since the war, but over 170,000 more donors are needed to keep pace with the growth of the National Blood Transfusion Service.

Guild of Dispensers. — The recently formed Guild of Dispensers (see C. & D., June 28, p. 860) held a meeting in London on July 21 when permanent officers were elected. The secretary (W. S. Solomon) reported that since the inaugural meeting the enrolment of members had been "most satisfactory."

U.K. Trade with Jugo-Slavia.—Discussions on trading arrangements for 1952 in accordance with the Anglo-Jugoslav Trade Agreement, 1949, have been successfully concluded in London. The arrangements provide for the exportation from the United Kingdom of chemicals, pharmaceutical raw materials, pharmaceutical products, and drugs, etc.

Coronation Souvenirs.—The Council of Industrial Design has formed a Coronation souvenirs committee to promote a high standard of design in souvenirs made by British manufacturers for the Coronation, and submissions from individual firms working in any material are invited. Designs may be submitted as drawings, models or prototypes. Those accepted are being included in a new section of the Council's Design Review devoted exclusively to Coronation souvenirs. All souvenirs should be submitted to the Secretary of the Committee, Tilbury House, Petty France, London, S.W.I.

#### A GIFT FROM BRITAIN TO FRANCE

A clock which is being presented by the Pharmaceutical Society of Great Britain to Pharmaceutical Society of France, It will hang on the wall of their new Paris headquarters, and will be handed over formally in October. The clock tells the days of month was made by Cutlove of Frensham, Norfolk, between 1750 and 1800.



F.B.I. Memorandum on Taxation.—The second memorandum by the Federation of British Industries was submitted to the Royal Commission on Taxation of Profit and Income, on July 31. The heading under which the evidence is arranged ar those specified by the Commission and commences with section 4. Copies of the second memorandum may be obtained from the Federation, 21 Tothill Street, Londor S.W.1, price 18, 4d.

Export Licensing Changes.—Change in export licensing control are made be a Board of Trade Order which comes into operation on August 11. The principal changes include the following:—(1) The export of all goods to Tibet is prohibite except under licence. (2) Licences are required for all destinations for certain mit tures of spirits, rare earth metals, alloy compounds and mixtures, specified forn of aluminium and titanium (rutile). (Licences are required for nickel catalyst for all destinations other than those specified in Part II of the Third Schedule ecluding Hong Kong. (4) Fruit pectin exempt from export licensing control.

Scholarship Awards.—The Pharmace tical Society has awarded its researce scholarship (£300 a year) for 1952-54 Mr. L. E. Coles, B.Pharm., Ph.C., 14 Ph beach Gardens, London, S.W.5. Coles will be engaged in the school pharmacy of the University of Londo completing work on the synthetic analogu of the adrenal cortical hormones. We come Pharmaceutical Research Fellowshi of £350 a year each have been awarded Messrs. John Thomas, Ph.C., 38 Gree ough Street, Wigan, and G. L. Wille B.Sc., 55 High Street, Knaresboroug Yorks. Mr. Thomas will work in the d partment of pharmacy, Manchester Us versity, on a study of the chemical synth sis of biological activity, particularly ba tericidal action, of a new series of quate nary ammonium compounds, and M Willey, at Leeds University, on the pos bility of selectivity of action of nicotir like stimulant compounds. The Society halso awarded the Jacob Bell memor scholarship (£150 with £5 worth of boo to Mr. T. M. French, 45 Bush H Northampton; the Manchester Pharmace tical Association scholarship (£45) to N Robert A. Alcock, Wayside Farm, Scar Hill, Ormskirk; and the Devon and Conwall exhibition in pharmacy (£25) to N Allan James Smale, Park Lodge, Tiverto Devon.

#### LOCAL NEWS

Smash-and-Grab Raid on Pharmacy. — A smash-and-grab raider stole a pair of binoculars and two cameras from the window display at Mr. C. Jacob's pharmacy, Granby Street, Leicester, on July 21.

New Factory for Folkestone.—Pfizer, Ltd., 47 Piccadilly, London, W.I, are opening a factory at Folkestone, Kent, It is expected to be in production by January 1953. One of the products will be terramycin.

Fee for Receipts Urged.—At a meeting of the King's Lynn branch of the National Pharmaceutical Union recently, a resolution that "The Norfolk Pharmaceutical Committee press for a fee for the issuing of levy receipts" was passed.

Staff Outing.—The staff and employees of Meggeson & Co., Ltd., London, visited southsea on June 21, as guests of the ompany on their annual outing. On rrival at Southsea they were received by Messrs. W. Wigglesworth (chairman), and C. G. Feather (managing director).

A Distribution Centre for Speke.—The british Drug Houses, Ltd., have negotiated with the Liverpool Corporation for a 1.3 cre site at Speke, Liverpool, on a 999 ears' lease. The company proposes to stablish there a distribution depôt or to se the premises for pharmaceutical propositions, and packaging operations.

Golden Jubilee.—Spicers, Ltd., paper akers, 19 New Bridge Street, London, C.4, celebrated the fiftieth anniversary the opening of their factory at Union reet, London, S.E.1, on June 11. The lebrations included a trip down the hames and tea for the pensioners, and party for the workpeople.

Service in Leicestershire.—Because cerin residents in Glenfield, Leics, are two iles from the nearest open chemist after doctor's dispensary had been closed, it as decided at a meeting of the parish uncil recently to ask the doctor and a lemist if facilities in the area could be proved. The Leicestershire and Ruthad Executive Council had said that they d not consider that the residents had too r to go for their medicines.

More but Cheaper Prescriptions.—Preting his annual report to the Liverpool ecutive Council, Professor W. L. Blease tairman) said that although Liverpool ople still needed more prescriptions per ad than people in other parts of Britain, by were content with cheaper ones. It remained to be seen whether the shilling levy would have any effect. The 1951-52 expenses included a payment of £1,122,000 to chemists compared with £835,501 the previous year.

Cortisone and ACTH.—At the annual meeting of the Epsom and Sutton Branch of the Pharmaceutical Society recently, Mr. A. R. G. Chamings (Ciba Laboratories, Ltd.) gave a talk on corti-sone and ACTH. It was to the benefit of all, he said, that their use was restricted until full research had revealed all aspects of their actions. Mr. Chamings explained the relationship between cortisone and ACTH, the work involved in producing a clinically effective preparation, and the subsequent research in developing a product of higher concentration and more precise standardisation. The chief difficulty in the use of the drugs at present appeared to be the cost of production and the subsequent cost of maintenance doses for patients under treatment.

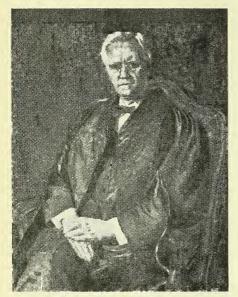
#### **SPORT**

Cricket.—Scarborough and Bradford Pharmacists, at Scarborough, on July 27. Winners: Scarborough by 1 rm (114 for 2); Bradford (113 for 6). Each side batted 22 overs, The Johnson & Johnson shield (to be played for annually) was presented to the Scarborough team after the match.

Golf.—Irish Chemists' Golfing Society, at Foxrock Golf Club, co. Dublin, recently for prizes presented by May Roberts (Ireland), Ltd., and Ovelle, Ltd.. At a supper held after the games Mr. J. Draffin (immediate past-captain) presided in the absence of the captain (Mr. S. O'Farrell), and presented the winners with their prizes. Results of the competitions were as follows: 18 holes strokes: 1, J. M. Glynn (12) 66; 2, J. Draffin (9) 72. Bogey competition: 1, F. J. McKenna (13) 1 up; 2, A. Walsh (14) all square. Best net first nine: D. Woulfe 34½; best net second nine: P. McAuliffe 33½. Special prize for nine secret holes, presented by Mr. W. Webb of The Wellcome Foundation, Ltd., was won by T. J. Banki (9) 31.



Dr. J. S. White, front row, centre, and Mr. A. T. Bradford, second row, second from right (respectively head of clinical investigation department, and purchasing manager, Parke, Davis & Co., Ltd.), with other retiring members of the company's staff at a party given by Messrs. Parke, Davis in their honour recently.



A painting of Sir Alexander Fleming by Mr. Herbert Holt being shown at the 1952 Exhibition of the Royal Academy of Arts, Burlington House, London.

#### IRISH NEWS

Veterinary Medicines Warning.—The Irish Minister of Agriculture (Mr. T. Walsh) has issued a warning to farmers against purchasing or agreeing to purchase preparations claimed to be remedies against animal diseases or to be effective in improving the health and condition of animals, "until they have consulted a person competent to advise them as to the claims made for such preparations."

Examination Results.—Of thirty-three candidates who sat for the July Assistants' examination held by the Pharmaceutical Society of Ireland the following passed: Mary F. T. Bergin, Bridget A. Cahill, Mary E. Fitzgerald, Frances Lannin, James D. P. Maher, Mary McCarthy, John M. F. McKiernan, Edward B. McWey, Patrick Monsell, Bridget O'Leary, Mary O'Toole, Christina Stapleton, Josephine Talbot, Mary A. Timlin, Paula M. Walsh and Johanna P. Waters.

Benevolent Fund.—A meeting of the Committee of the Northern Ireland Chemists' Benevolent Fund was held in Belfast on August 1, Mr. H. W. Gamble in the chair. Also present were Messrs. J. McGregor, H. F. Moore, C. A. Quinn,

T. F. Storey and W. Gorman (secretary). An application for assistance was considered and a grant made. It was decided to invest £500 of the Fund in suitable securities. After discussion it was agreed that an appeal should be made to members and associates of the Society in support of the Fund.

Supply of Medicines.—Two provisions on the supply of medicines appear in a White Paper issued recently by the Irish Minister for Health (Dr. J. Ryan) embodying proposals for improved and extended health services. Paragraph 5 says "medicines are available at dispensaries for eligible persons and they are dispensed by the medical officer or, in most of the larger towns, by a compounder of medi-Essential appliances are provided either through the dispensaries or through the hospital service." The "eligible persons" are those at present receiving free treatment under the Public Assistance Act, 1939, Paragraph 29 says: "Medicines and essential nutrients will be issued at child welfare clinics for children in the lower income group" (i.e., persons in the present public assistance class). A copy of the White Paper has been sent to the Council of the Pharmaceutical Society of Ireland and their observations invited by the Minister for Health. The matter is under consideration by the Council.

Students' Journal.—A new issue of the Irish Pharmaceutical Students' Association's cyclostyled journal, the "Pharmacy Student," contains an editorial on the new educational regulations of the Pharmaceutical Society of Ireland. The editorial states that for students educated under the old and "admittedly inadequate" courses in Mount Street the outlook was "not so rosy." It was probable that the standard of the Licence examination would be raised in the near future and many older students might find themselves unable to attain the required standard. That class of student was entitled to special consideration. Mr. P. S. O'Briain, Ph.C., has contributed an article "A Chemist or the Continent," on Denmark. Other articles include one in a series on "Socia Trends in Ireland" entitled "Fear o Fear," some short articles on American pharmacy, excerpts from Dail reports or Irish pharmacy, and the itinerary for the International Pharmaceutical Students Federation camp study tour being held in August.

#### TOPICAL REFLECTIONS

#### **Educational Subjects**

August has brought, as usual, your annual synopsis of educational information, a valuable guide to pharmaceutical study; and articles by authoritative contributors emphasise the importance of certain subjects. Mr. D. Train, in "Engineering for Pharmacy Students" (p. 167), deals helpfully with "an applied science which was virtually non-existent thirty years ago." Dr. R. Fabre's "Phytopharmacy" (p. 147) is an attractive account of a science which, incidentally, forms a reply to critics who belittle the value of botany in the pharmaceutical curriculum. title reminds me that from 1853 to 1860 a Phytological Club was sponsored by the Pharmaceutical Society.) Dr. Fabre's narrative shows that in France the subject of safeguarding plants and plant products from damage caused by their enemies, including diseases, is taught thoroughly. Research workers in French centres are expected to "combine a deep knowledge of botany, zoology, biology and toxicology." How important this study is in a world now or soon faced with the problem of inadequate food supplies is instanced by the statement that destruction of at least 10 per cent, of crops—in various countries. I presume—is caused by plant pests. The author raises the interesting question whether experiments may lead to "the discovery of . . . chemical compounds having a specific action on animals and, at the same time, possessing no harmful action on others of an allied family."

#### Two Statements

Two sharply contrasting statements (pp. 141-42) have been issued from the Pharmaceutical headquarters. The report on assistants in pharmacy is to be welcomed. It proposes that the Council proceed with the formation of a class of trained and examined assistants who will be able to work "in either a pharmacy or a hospital and, if in a pharmacy, either at the counter or in the dispensing department." Possibly a better name for them than "pharmacy assistants" will be thought of and adopted. The draft of a revised statement on matters of professional conduct is a very different kind of document. When I learned that this was under consideration, I hoped that the opportunity would be taken to condense the contents of the existing statement. Instead, its length has been nearly doubled-another case of "Words, words, words." Is it seriously supposed that any practising pharmacist can keep all these twenty-nine paragraphs in mind? A majority of the Society's members has agreed to-or has acquiesced in-the publication of an equivalent of a code of ethics. What is wanted, surely, is an ethical alphabet, as simple as is consistent with clearness. For newly qualified people it is not amiss to have a printed reminder like, for instance, that in paragraph 14. But pharmacists should not be kept permanently in leading-strings. On reading the reference to the opinion of the Council in paragraph 24 one wonders whether the functions of the Poisons Board are to be changed. And there may be grim smiles at the headquarters of the British Medical Association on discovering that "while the closest co-operation between pharmacist and doctor is desirable it is important that each should preserve his independence." Severe pruning of the statement is, I submit, requisite.

#### **Business History**

A letter to the Press in 1934, signed by distinguished people, announced the formation of the Council for the Preservation of Business Archives (C. & D., 1934. I. 689). In a lecture the first part of which is printed in the current issue of "The Genealogists' Magazine," Mr. Donovan Dawe states that the council has done much in implementing the objects laid down at its birth. Mr. Dawe discusses various ways of compiling business history. He holds that the material used "should make a contribution to economic history, or to the history of manufacturing process." There seems to be no reason why it should not do both. As a "classic example" of what can be accomplished in this field, he cites Professor George Unwin's "Samuel Oldknow and the Arkwrights." Drawing on his experience, the lecturer explains how a skilled genealogist sets to work where the archives of a business house are deficient. The task is perhaps easier in the City of London than elsewhere, because of the volume and variety of records preserved in the Guildhall Library and the Guildhall Records Office. The method, however, can be adopted, with appropriate variations, in other cities. Xrayser

#### **NEW COMPANIES**

GLUTAMATES, LTD. (P.C.). — Capital £1,000. To carry on the business of druggists, chemists, etc. Joshua Saper and Shirley Saper, directors. R.O.: 61 Stock Street, London, E.13.

Bell & Sons (Northern), Ltd. (P.C.).—Capital £500. To carry on the business of manufacturers of and dealers in veterinary, pharmaceutical, medicinal preparations, etc. Richard M. Bishop and James Sowler, subscribers. R.O.: 17 Gascoyne Street, Liverpool.

Gallwey Chemical Co., Ltd. (P.C.).
—Capital £2,000. To carry on the business of manufacturers, importers of and wholesale and retail dealers in chemicals and chemical products, etc. Gerald Gobert, 48 Meadway Court, London, N.W.II, managing director.

HIRAM CLOUGH, LTD. (P.C.).—Capital £3,000. To carry on the business of manufacturing, pharmaceutical and general chemists, herbalists and seedsmen, etc. Hiram Clough, M.P.S., and Ellen Clough, directors. R.O.: 102 Barkerhouse, Road, Nelson, Lancs.

Surrey Rejuvenation Co., Ltd. (P.C.).—Capital £1,000. To carry on the business of manufacturers, owners and vendors of proprietary and other medicines, etc. Mary Murphy and Maureen Maddison, subscribers. R.O.: 75 Heybridge Avenue, Streatham, London, S.W.16.

Addis (Canadian Exports), Ltd. (P.C.).—Capital £100. To carry on the business of exporting tooth-brushes and other toilet brushes to Canada, etc. Robert Addis, 66 Ware Road, Hertford, Herts, and John Perry, subscribers. The first directors are not named.

EAGLESCLIFFE CHEMICAL MANUFACTURING CO., LTD. (P.C.).—Capital £80. To enter into a deed of partnership with the Eaglescliffe Chemical Co., Ltd., and to carry on the business of chemicals and chemical preparations. Michael J. C. Hutton Wilson and Thomas Williams, subscribers

TAIRGEADH CEIMICI (CHEMICAL PRODUCTS), TEORANTA. (P.C.).—Registered in Dublin. Capital £100. To carry on business as manufacturers, etc. Muiris MacGerailt, D. R. O'Cinneide, and Edward J. MacGinnis, 4 Orwell Park, Rathgar, Dublin, directors.

GRIPPE ADHESIVES Co., LTD. (P.C.).—Registered in Edinburgh. Capital £3,500.

To carry on the business of chemical manufacturers, etc. J. McL. Anderson, J. McLellan and Ann McL. Anderson, directors, all of 9 Boclair Crescent, Bearsden, Dunbartonshire. Secretary: Jessie McLellan. R.O.: 1 Bothwell Lane, Glasgow, W.I.

#### Company News

JOHN WYETH & BROTHER, LTD.—Mr. Peter Keddie, M.P.S., has been appointed to the board.

IMPERIAL CHEMICAL INDUSTRIES, LTD.—Mr. Stanley Paul Chambers, C.B., C.I.E., has been appointed a deputy chairman of the company.

EVANS MEDICAL SUPPLIES, LTD.—The company has purchased the ordinary capital of Don Bryan, Ltd., Mariner Street, Swansea. The subsidiary company will trade as Evans Medical (Wales), Ltd. Mr. G. A. Wilson, B.A., has been appointed general manager.

Southalls (Birmingham), Ltd.—Results for the first six months of the financial year show a trading loss due to losses on stock. The expected net loss for the year should be amply covered by reserves. The directors have decided to pay an interim dividend of 5 per cent. which is covered by investment income for the half-year.

#### Voluntary Liquidations

DURBINS DRUG STORES (SURBITON), LTD., 19 Victoria Road, Surbiton, Surrey. Liquidator: Mr. F. E. Hoggarth, 77 London Road, Kingston-on-Thames.

O. ROBERT-JONES, LTD., chemists and druggists, 7 Market Street, Holyhead, Anglesey. Liquidator: Mr. J. M. Williams, Allantre, Devonald Street, Holyhead.

#### **BUSINESS CHANGES**

THE only address of Potter & Clarke, Ltd., is now River Road, Barking, Essex (telephone: Rippleway 3041).

THE Manchester office of Monsanto Chemicals, Ltd., removed to 601 Royal Exchange, Manchester (telephone: Deansgate 7878), on July 24.

From July 31 the International Tin Research and Development Council, Fraser Road, Perivale, Greenford, Middlesex, became known as the International Tin Research Council.

#### **DEATHS**

COOPER.—On June 14, Mr. Walter Andrew Cooper, M.P.S., 95 Wembley Park Drive, Wembley, Middlesex. Mr. Cooper qualified in 1919.

Drabble.—On July 23, Mr. Joseph Milnes Drabble, M.P.S., 123 Wellgate, Rotherham, Yorks, aged forty-eight.

DRUMMOND.—On August 4 or 5, Sir Jack Cecil Drummond, D.Sc., F.R.S., F.R.I.C., Spencer House, Nuthall, Nottingham, aged sixty-one. He was found murdered on the foothills of the French Alps on August 5 near the dead bodies of his wife and only child. Sir Jack was director of research to Boots, Ltd., since 1946. He was educated at King's College School, Queen Mary's College and King's College, University of London, where he was a research assistant in 1913. In 1914 he was appointed research assistant in the bio-chemical department, Cancer Hospital, London, and director of bio-chemical research in 1918. He was professor of bio-chemistry, University College, University of London, 1922-45 and Fullerian professor of physiology, Royal Institution, 1942-44. Sir Jack was an authority on dietetics, was a consultant to the Ministry of Food, 1939-46, and worked out the war-time diet for the British people. He was elected a Fellow of the Royal Society and knighted in 1944.

HALL.—On July 20, Mr. George William Hall, M.P.S., 24 Market Square, Stone-haven, Kincardines. Mr. Hall qualified in

LATREILLE.—On July 24, Mr. Albert Latreille, M.P.S., 34 Woodmancote Road, Worthing Sussex, aged eighty-two.

#### **PERSONALITIES**

Mr. Fletcher Ritson, M.P.S., Birkennead, Ches, has been elected president of Birkenhead Rotary Club.

Mr. J. H. Read, who was recently elected a Fellow of the Institute of Directors, a director of Cuxson, Gerrard & Co., Ltd., Oldbury, Birmingham, and not as tated in the C. & D., August 2, p. 135.

Mr. Peter Keddie, M.P.S., who has een appointed to the board of John Wyeth & Bro., Ltd., joined the comany as assistant sales manager in December 1946. He was appointed as sales nanager in April 1950.

MR. T. R. SCHOLFIELD, PH.C., the

recently elected chairman of the Tees-Side Branch of the Pharmaceutical Society, has been managing director of Middleton & Ltd., manufacturing laboratory furnishers, and brough, since 1942. Mr. Scholfield, a native of Burnley, was apprenticed to his father, the late Mr. W. Scholfield, Burnley, and qualified as a pharmaceutical chemist in 1929 after study at the Society's College where he was awarded the silver medal in pharmaceutical chemistry and was captain of the school's football team. He joined the staff of Savory & Moore, Ltd. in 1930, at Tottenham Works. His association with Messrs. Middleton began in 1933. Mr. Scholfield has been a member of his Branch committee since 1935 and took an active part in the formulation of a code of ethics submitted by the Branch. He also takes an active interest in the Association of British Pharmaceutical Industry.

#### THE WEEK IN PARLIAMENT

MR. V. F. Yates asked the Minister of Health on July 31 if he was aware of a "considerable discrepancy" in the numbers of prescriptions put by doctors on one form and if he would take steps to alter doctors' terms of service to ensure that greater conformity was reached. Mr. Iain MacLeod (Minister of Health) said that the need might vary. He was not clear that it would be an advantage to add further requirements to the terms of service.

#### Shops Legislation

MR. W. E. PADLEY asked the Home Secretary on July 31 when he expected to introduce legislation to amend the Shops Act, in the light of the recommendations of the Gowers Committee, and whether he was in a position to consult with the trade interests. SIR DAVID MAXWELL FYFE (Home Secretary): "I am not in a position to say when legislation on shop hours will be practicable. I will consult the interests concerned when the time is ripe." He was considering the matter but at the moment it was difficult to fit in legislation. In reply to another question the Home Secretary told Mr. Padley that he had arranged to discuss with the interested organisations the question whether the further continuance of the emergency provisions incorporated in the Shops Act relating to the winter closing hours of shops could be justified.

#### LEGAL REPORTS

Prescription Altered. — At Witney, Oxon, magistrates' court recently, Gertrude Ellen Green, a widow, of Stanton Harcourt, Oxon, was found guilty of attempted false pretences, and was fined £2 and ordered to pay half of the costs. Prosecuting, a police officer said Mrs. Green's doctor had prescribed for her half a pound of lint. A chemist at Eynsham, Oxon, noticed that the words, "three crêpe bandages," had been added to a prescription presented at his shop. He refused to deal with the prescription and reported the matter.

Illegal Sale of Poison.—Fines totalling £45 were imposed by Leamington magistrates on July 21, on Hutton & Barrett, Ltd., chemists, on three summonses under the Pharmacy and Poisons Act, 1933, concerning the illegal sale of beta-aminopropylbenzene in Dexedrine tablets. Prosecuting on behalf of the Pharmaceutical Society, Mr. A. C. Castle said that on June 4 an inspector under the Act sent a lady agent into the company's shop at 42 The Par-She had never been there before, and she requested the young lady assistant to let her have a supply of the tablets, which were handed over without any question; they were in a box, and no entry was made in the register, no signature by the purchaser being demanded. The inspector then went into the shop and found that no qualified chemist was on the premises. For the defence, Mr. Gordon Swain, pleading guilty, said that from time to time the company had issued written instructions to its servants on the importance of complying with the requirements, under the regulations, and the sale of Dexedrine had been the subject of a special directive. It was emphasised that the drug must not be supplied without The magistrates allowed prescription. three guineas costs.

Treatment Advertised.—At Old Street, London, magistrates' court on July 30 James Henderson Coutts, 6 Great Eastern Street, London, E.C.2, was fined £10 and ordered to pay three guineas costs after being found guilty of infringing the Pharmacy and Medicines Act, 1941. Appearing for the Pharmaceutical Society, who were prosecuting, Mr. A. C. Castle alleged that the defendant unlawfully took part in the publication of an advertisement referring to an article in terms which were calculated to lead to the use of the article for the purpose of treatment of human

beings for tuberculosis, Bright's disease, diabetes, epilepsy, locomotor ataxy and paralysis. Mr. W. R. Roberts (chief inspector of the Society) said that he obtained from the defendant for 1s. 6d, a booklet entitled "The Acid Cure" or "How to be Well" in connection with a preparation known as Coutts acetic acid. It was described as "A manual of the principles and practice of the spinal system of treatment with the rules of health." Mr. Castle read extracts. Mr. Roberts, in evidence, mentioned that he bought a bottle of Coutts acetic acid on April 17. When interviewed subsequently, defendant said the booklet had been issued for many years without any complaint, Mr. D. E. Rodwell, for the defendant, submitted that the booklet was an advice on treatment. The defendant then made a statement. Summing up, the magistrate said there could be no doubt that the booklet constituted an advertisement under the Act.

#### **INQUESTS**

Child Takes Strychnine.—The Manchester coroner recorded a verdict of death by misadventure on May 29 on a fifteen-month-old baby who died after eating twenty-seven tablets supplied to the mother. The mother said the tablets had been dispensed by a chemist on a doctor's prescription. She was not told there was poison in them. The coroner said there was sufficient strychnine in them to poison an adult. He suggested that tablets containing poison and supplied for adults should be labelled "dangerous to children." The "least that should be done" was to give information to the parents.

Unlabelled Liquid Mistaken.—At an inquest in Westminster recently on a four-year-old boy who had died during an operation in hospital, the anæsthetist told the coroner that he was deputising for the regular anæsthetist and was used to working with a trolley containing a gallipot of coloured spirit. He added from a bowl a liquid which he thought was sterile water and later proved to be alcohol, to thiopentone solution, and the solution was administered. Asked by the coroner if he satisfied himself by smelling or dipping his finger into it that the gallipot contained water, the anæsthetist said that the mask would have prevented him from smelling it. The coroner recorded a verdict of death by misadventure, and remarked that the hospital would no doubt look into the arrangements as regards the colouring of bowls containing spirits.

#### MINISTRY SAMPLES THE LEVY'S EFFECT

THERE was an average drop of 15.57 per cent. in the number of prescriptions declared as submitted for England and Wales for June 1952 as compared with a year ago, according to a Ministry of Health

analysis issued on August 5.

The greatest percentage drop was recorded in Wakefield (26.30 per cent.); St. Helens (26.17 per cent.); Barnsley (24.52 per cent.); Middlesbrough (23.98 per cent.); Blackburn (23.55 per cent.); Wigan (23.41 per cent.); Dewsbury (23.05 per cent.); Bootle (22.12 per cent.). An increase was recorded in North Riding (2.48 per cent.); East Riding (2.82 per cent.); Westmorland (13.70 per cent.). There was a drop in the number of forms declared of 20.4 per cent.

The average number of prescriptions per form was 1.69 compared with 1.57 in June 1951. The Executive Council areas showing the highest prescription-per-form ratios were: Lancashire (1.957); Nottingham (1.940); Liverpool (1.889); South Shields (1.838); West Riding (1.829); Hull (1.827); Oldham (1.822); Birkenhead

(1.808); Wallasey (1.801). The greatest actual increase was in Lancashire (an increase of 0.37); Nottingham (0.34); West Riding (0.29); Rotherham (0.20); East Riding (0.18); Wallasey (0.17); Bootle (0.16); Liverpool (0.16); South Shields (0.15); Chester (0.15). The lowest ratios were in Westmorland (1.479); Grimsby (1.467); North Riding (1.443); Huntingdonshire (1.459); Cambridgeshire (1.387); Lincs (Holland) (1.377). There was a decrease in Huntingdonshire (0.01); Lincs (Holland) (0.02); North Riding (0.03); Cambridgeshire (0.13).

The number of prescriptions in the "S" portion was about 24 per cent. against

20 per cent. for June 1951.

The estimated average total cost per prescription for June 1952 was 1½d. to 1½d. higher than for May 1952. The increase between May and June 1951 was just under 1d. Recent experience shows, the Ministry states, that the values obtained from the 1 per cent. sample are about ½d. higher than the final certified national values.

#### STUDENTS SURVEY APPRENTICESHIP

THE British Pharmaceutical Students' Association has conducted a survey of conditions in apprenticeship based on a questionnaire sent to all members of the association. An analysis of a number of completed forms equivalent to 10 per cent. of those dispatched was carried out. The sample contained 27 per cent. women and

73 per cent, men.

It was found that apprentices worked between seven and eight hours per day and between thirty-eight and forty-four hours ber week. All but two of the cases conidered received at least two weeks' paid polidays each year. Salaries in private pharmacies varied from £26 to £182 per innum (pre-graduate) and from £200 to (post-graduate). Multiple retail alaries showed a steep gradation accordng to the age of apprentice. For preraduate apprentices the salary sometimes ose to £360 at the age of twenty. From the vailable data it would be true to say that twenty-year-old private apprentice was warded a slightly lower salary than a ixteen-year-old multiple retail apprentice. Private retail apprentices appeared to evote more of their time to dispensing

han did those in multiple establishments.

The following table shows how apprentices devote their time.

Group	Private Shops	Multiple establish- ments
	%	%
At least 40% of time spent		
in dispensing	82	6o
At least 50% of time spent		
in shop work	30	46
At least 10% of time spent		
in errands	18	15
No cleaning work	° 40	18
No shop work	20	7
No errands	7	58

70 per cent. of private retail apprentices were allowed no time to study; 75 per cent. of those in multiple establishments were granted usually four hours per week. Most of the latter were provided with a course of study dealing with dispensing, pharmacognosy and forensic pharmacy.

The Association expresses concern at the small number of hospital apprentices and, particularly, at the small number of persons wishing to pursue a career in hospital pharmacy. It is also disturbed at the inadequacy of supervision in a small number of cases.

#### NORTHERN IRELAND

#### Pharmaceutical Society

A MEETING of the Council of the Pharmaceutical Society of Northern Ireland was held in Londonderry on July 24, the president (Mr. H. W. Gamble) in the chair. Also present were Messrs. W. H. Boyd (vice-president), C. Abernethy, S. E. Campbell, H. J. Cousley, W. P. Ewart, J. Irwin, H. F. Moore and John McGregor. The secretary (Mr. W. Gorman) was in attendance. Apologies for absence were received from Messrs, H. H. Cowzer, H. P. Crossin (treasurer), P. R. W. Shinner, F. R. Moore, Professors E. B. C. Mayrs and J. Small, and Dr. H. D. Heazley.

THE PRESIDENT offered congratulations to Mr. and Mrs. Boyd on the birth of a

daughter.

THE SECRETARY reported that the Ministry of Home Affairs had intimated that they were investigating the sale of

poisons from vans.

THE SECRETARY, Queen's University, Belfast, wrote stating that the Standing Committee of the Senate had agreed to recommend to the Senate that Professors E. B. C. Mayrs and J. Small be reappointed representatives to the Council for a further period of three years.

Reports from the Finance and Education Committees were adopted. The latter included the recommendation that Certificates of Apprenticeship be granted to Miss Ann Gass Hutchinson and Mr. Howard Douglas McIlroy.

#### Health Board

AT a meeting of the Northern Ireland General Health Services Board on Jul 30, when the Board discussed a Pharma ceutical Service Committee's finding tha a chemist dispensed a test prescription for six yards of absorbent gauze 4.6 pe cent. deficient in area, Mr. H. W. Gambl (a pharmaceutical member), pointed ou that in cases of that type, although th manufacturer was solely responsible, th Board had to apply a penalty to the che mist in the expectation that he would be recouped by the suppliers. They in tur would seek redress from the manufacture of the turer. The chemist could not examine th contents of the packet before dispensin it as he would then be in breach of h obligation to dispense in the origina sealed wrapping. He considered that th unsatisfactory situation should be brough to the notice of the Ministry of Health and proposed that £5 be deducted from the chemist's remuneration instead of £20 The proposal was seconded by Mrs. Wa lace. A further amendment moved b Mr. Bradley McCall, Q.C., seconded b Mrs. Wallace, to deduct one shilling, wa carried on a vote.

It was decided to deduct the sum of £2 2s. from the remuneration of another chemist, who had been affixing to bottle issued by him, labels bearing the following wording: "Twopence allowed on th bottle if returned in good condition.

#### SEVENTY YEARS WITH THE COMPANY

Mr. W. J. Thomas retires from W. J. Bush & Co., Ltd.



In honour of Mr. W. J. Thomas (chairman, W. J. Bush & Co. (Aust.), Pty., Ltd., and a director of the parent company) who recently completed seventy years' service with the company, the directors of W. J. Bush & Co., Ltd., gave a dinner in London on July 16. Mr. Thomas, now eightyseven, joined Messrs. Bush as an office boy in 1882 and his rise was so rapid that

In the group, which cludes Mr. E. L. Bu: Mrs. P. C. C. Ish wood, Dr. P. C. Isherwood. Mrs. Sheldon, Mr. A. J. M Intyre and Mrs. E. Bush, Mr. Thomas between Mrs. and I Isherwood. Extre left: Mrs. A. J. N Intyre. Extreme rigi

Mr. C. F. Bush. Bottom of table: Mr. E. C. Sor well, Mrs. C. R. Woods, Mr. H. B. Bush, Mr. E. C. Sortwell, Mr. C. R. Woods.

within ten years he was appointed to ! to Melbourne as branch manager. He b came a director of the parent company 1937 and chairman of the Australian cor pany in 1949. Mr. Thomas was presente with a souvenir of the occasion,

#### PHARMACEUTICAL SOCIETY OF GREAT BRITAIN

A MEETING of the Council of the Pharmaceutical Society was held in London on July 29 and 30, the President (Mr. W. J.

Tristram) in the chair.

The Council considered the draft revised statutes of the International Pharmaceutical Federation prepared by Mr. H. N. Linstead and Dr. Spillmann in accordance with an arrangement made at the general sesembly held in Rome in 1951. It was reported that the draft had been sent to he fifty national bodies whose representaives would be considering the matter at he council meeting to be held at Vienna n September. The main change for which he draft provided was to make the council of the Federation (on which each national reganisation was represented) the executive ody of the Federation.

The Council considered a suggestion that hen the British Pharmaceutical Confernce was held in London in 1953 the optunity might be taken to organise a neeting of representative pharmacists from ther countries of the British Commonealth to discuss problems of common invest. The registrar was asked to ascertain the views of pharmaceutical bodies in the verseas countries on the proposal. Probals for an exhibition at the Society's cadquarters in celebration of the cententy of the Pharmacy Act, 1852, were condered, and it was left to the president fix a date for it in the autumn.

#### creased Fees

The Council approved in first reading amendment to the by-laws providing r an increase in the premises registration d retention fee from two guineas to ree pounds. The by-law would be subitted for approval by the Council on two bsequent occasions, before being sent to

e Privy Council.

It was reported that the British Pharmautical Conference executive had, after
nsidering a resolution passed at the
anch Representatives' Meeting, decided
at it would not be possible to hold a
ligious service in connection with this
ar's Conference but that the proposal
ould be considered again by the Execu-

e to be elected at Nottingham.

The report of the Scholarships Examation for 1952 was received, and on the commendation of the Education Comttee the Council agreed that the follows awards should be made:—Jacob Bell

Memorial Scholarship, Terence Michael French. Manchester Pharmaceutical Association Scholarship, Robert Arthur Alcock, Devon and Cornwall Exhibition in Pharmacy, Alan James Smale. No candidates qualified for the award of the Humphreys Jones or Leverhulme Scholarships. In accordance with the report of the research Scholarships subcommittee and the recommendation of the Education committee, the Pharmaceutical Society Research Scholarship for 1952-1954 was awarded to Lewis Edwin Coles, for studies in the School of Pharmacy of the University of London. The Council authorised the president to award the Council prizes for 1952 as recommended by the examiners,

#### **Examination Statistics**

The report of examinations held in England and Wales in July, stated that there were 231 entrants for the Intermediate examination, of whom fifty-nine passed, forty-nine were referred, 116 failed, and seven were absent. Of eighty-two entrants for a referred subject, thirty-five passed, forty-three were again referred, and four were absent. For the Chemist and Druggist Qualifying examination 130 candidates entered, forty-seven passed, twenty-six were referred, fifty-two failed, and five were absent. Twelve out of sixteen candidates passed in a referred subject, and four were again referred. The Education committee granted approval to five hospitals for purposes of practical training and deferred its decision in the case of another hospital. It was reported that since the previous meeting twentythree applications for approval of pharmacies had been granted.

The Benevolent Fund and War Aid committee's report showed that grants had been made to seven widows, amounting to £333. Recommendations for grants in seven other cases (six widows and one member) were approved. They amounted to £820, including £150 from the Orphan Fund. The receipt of £50 bequeathed to the Benevolent Fund by the late Mr. S. T. Milbank, of Bishop's Stortford was acknowledged. Two further gifts each of two Camwal shares were reported.

The Committee reported that in view of new arrangements for dealing with business concerning Birdsgrove House it was no longer necessary to reconsider the Council resolution brought forward annually

since 1948. It meant that the financial as well as the managerial aspects of Birdsgrove House would remain the responsibility of the Benevolent Fund committee though a separate appeal for the Birdsgrove House Fund would still be made. The Warden's report stated that in the three months ending June 30, there had been 115 guests at the home, aggregating 220 weeks, against sixty-six guests and an aggregate of 140 weeks in the same months of 1951. Further gifts in cash and in kind were recorded. The committee's report also stated that suitable lighting for the recently acquired billiards table at Birdsgrove House was being installed. The cost was being borne by the Ashton-under-Lyne Branch. The Buxton Branch had presented money for the purchase of a bedside table, and the ladies' social committee of Blackpool Branch had sent £30 for the purchase of a writing table.

On the recommendation of the Ethical committee the Council agreed that a statement on a restricted list of veterinary preparations drawn up in consultation with

the Royal College of Veterinary Surgeons and the British Veterinary Association should be issued. The Law Committee's report showed that in June the Society's inspectors and agents visited 790 authorised sellers and 528 drug stores and similar traders. Thirty cases of alleged infringe-ments of the Pharmacy Acts and the Penicillin Act were considered and appropriate action taken.

THE REGISTRAR reported that since the previous meeting forty-eight persons had been registered as apprentices or students making a total of 312 in the current year. The Council authorised the registration under reciprocity arrangements of nine pharmacists formerly resident overseas (four in South Africa, three in New Zealand, one in South Australia and one in New South Wales); and of seven pharmacists under the regulations for the registration of foreign pharmacists (India, three; Poland, two; France, one; Italy, one). The name of one pharmacist which was removed from the register over ten years ago was restored.

#### FILMS FOR BRANCH MEETINGS

THE films committee of the Pharmaceutical Society has sent to all Branch secretaries notes on the arrangement of film evenings and a list of films of particular and general interest to pharmacists. The notes are based on the publication, "On Organising Medical Film Programmes," of the Scientific Film Association. The films of particular interest are as follows (source of each is given in parentheses):-

on their Activity " (British Medical Association).

" Alcohol and the Human Body" (Encyclopædia

Britannica Films).

"Birth of a Drug" (Imperial Chemical Industries, Ltd.). "Chloromycetin" (Parke, Davis & Co., Ltd.).
"The Chemotherapy of Experimental Amoe-

biasis " (Wellcome Film Unit).

"Colloids in Medicine" (Crookes Laboratories,

"Contraction of the Spleen" (Central Film Library, Government Buildings, Bromyard Avenue. London, W.3).

"Coramine" (Ciba Laboratories, Ltd.).
"DDT Poisoning of a Canary" (Dr. B. Stanford, 54 Upper Montague Street, London, W.1).

"Effect of Drugs on Gastro-intestinal Motility" (John Wyeth & Brother, Ltd.).

"Effect of Ergometrine on the Human Postpartum Uterus " (The Radcliffe Infirmary, Oxford). "Effects of Synthetic Cortical Preparations (Percorten) in the Adrenalectomised Dog " (Ciba). " Emulsions " (Crookes).

"The Extraction of Penicillin" (I.C.I.). "Feeding Bottles" (Milton Antiseptics, Ltd.).

"Foxgloves in Medicine" (W.F.U.).
"Highland Doctor" (C.F.L.).
"House of Squibb" (United States Information Services, American Embassy, Grosvenor Square, London, W.1).

"The Humoral Transmission of the Sympathetic Impulses " (I.C.I.).

Industrial Dermatitis " (C.F.L.). "Insulin" (W.F.U.).

"It Comes from Coal" (Gas Council, London, S.W.1).

"Man Against Insect" (I.C.I.).

"Medical Applications of Sulphonamides" (M. & B.).

' Modern Drugs in the Making " (Ciba). "Muscle Relaxants" (May & Baker, Ltd.). "Penicillin in Medical Practice" (C.F.L.).
"Properties of Acetylcholine" (I.C.I.).

" Production and Distribution of Medical Gases" (British Oxygen Co., Ltd.). "The Preparation of Diphtheria Antitoxin and

Prophylactic '' (W.F.U.). "Physiology of the Kidney" (I.C.I.).
"Story of DDT" (C.F.L.).

"Story of Halibut Oil" (Crookes).
"Take Thou" [The story of pharmaceutical manufacture and of the developments of pharmacy.] (Evans Medical Supplies, Ltd.).
"Thiopentone Sodium" (M. & B.).

"d-Tubocurarine" (W.F.U.).

"Venomous Snakes-Medical Aspects" (W.F.U.). "War Under the Microscope" (I.C.I.).

#### TRADE NOTES

Packaging Services. — Johns, Son & Watts, Ltd., 2 Epworth Street, London, E.C.2, give details on another page of their packaging services.

Sample Offer.—Halex, Ltd., Highams Park, London, E.4, offer on another page to send a sample of their new doubleduty rondated tooth-brush.

Press-button Sprayer.—Secto Co., Ltd., Blackburn, point out that their aerosol insecticide sprayer delivers liquid active ingredients as an aerosol spray. [Corrected note.]

Growth Promoting Preparation.— Kylon, Ltd., Eagle House, Jermyn Street, London, S.W.I, are introducing G.F.4. tablets each containing gr. 9.2 of a growth promoting concentrate of liver.

A New Dispensing Balance.—Britton Malcolm & Co., Ltd., 38 Southwark Bridge Road, London, S.E.I, give details on another page of a new brass dispensing balance sensitive to  $\frac{1}{3}$  gr.

Photographic Competition. — On another page, Agfa, Ltd., Deer Park Road, Wimbledon Factory Estate, London, S.W.19, remind chemists of their photographic competition and give details of the prizes.

A New Coating Pan. — Details are given on another page of a new coating pan made by Manesty Machines, Ltd., Speke, Liverpool, 19, having an infinitely rariable speed range. It is powered by a h.p. motor,

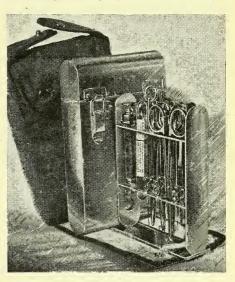
Comb and Brush to Match.—Pointing put that they were the first to offer toilet prushes and combs that could be bought adividually yet matched for colour, Spa Brushes, Ltd., Chesham, Bucks, offer a rariety of models.

A New Antimalarial.—Burroughs Wellome & Co., 183 Euston Road, London, I.W.1, give details on another page of Daraprim brand pyrimethamine, a new ntimalarial compound. It is available in ablets each containing 0.25 mgm, and is uitable for treatment and suppression.

Deodorant Stick.—Following on their unching in 1951 of a solid Cologne hree toilet waters in solid form) Henry. Miner, Ltd., Hook Rise, Kingston Byass, Surbiton, Surrey, present Miner's allorophyll deodorant stick to be applied the same way. For easy handling the ick is short and fat. It is kept in an

air-tight jar which should always be tightly capped.

Spirit-proof Instrument Case.—George Carsberg, Ltd., 7 Meredith Street, London, E.C.1, are manufacturers of the Meredith spirit-proof case of instruments for minor operations. The case is designed to carry, and keep antiseptic, those instruments



which a doctor would wish to have with him at all times. A special lid enables instruments to be kept in a spirit solution without fear of leakage. When the rack is set up, the instruments are easily placed for immediate use. Though normally supplied complete with standard instruments, the rack is designed to carry other instruments if required. The case is carried in a suedette cover which takes the driptray and has pockets for additional needles, silkworm gut, etc. The size is  $6\frac{1}{4} \times 4\frac{1}{4} \times 1\frac{1}{4}$  in., weight under  $2\frac{1}{2}$  lb, when full.

"Exclusive" Lanolins. — Westbrook Lanolin Co., Daisy Bank, 109 Duckworth Lane, Bradford, Yorks, have installed a plant for the manufacture of special lanolins, such as lanolins with extremely low ash content; with melting points much higher than normal and containing high proportions of free alcohols; and (in limited quantity) lanolins with colour requirements much more stringent than those specified in the British Pharmacopœia.

Apparatus Redesigned.—Chance Bros., Ltd., 28 St. James's Square, London, S.W.1, have made a number of improvements in the design of their Hysil brand laboratory glassware which includes standardisation of the size of necks of flasks, flattening the bases of beakers and flatbottomed flasks and increasing the thickness of beakers and flasks to give an even greater strength.

New Products and Packs.—J. Bibby & Sons, Ltd., King Edward Street, Liverpool, 3, are introducing Cidal germicidal cream shampoo containing hexachlorophene.—Allen & Hanburys, Ltd., Bethnal Green, London, E.2, have introduced new sizes of packs of Calcydic, Charkaolin, and Ferrodic iron granules. Their penicillin solution tablets 15,000 and 30,000 units are now available in tubes of ten.

Products Withdrawn or Altered.—
JOHN WYETH & BRO., LTD., Clifton
House, Euston Road, London, N.W.1, announce that they have withdrawn Strogene tablets owing to insufficiency of supplies of natural cestrogens. — WALLACE
MANUFACTURING CHEMISTS, LTD., 198
Finchley Road, London, N.W.3, announce
that in their Tausthman tablets, amidopyrine has been replaced by phenazone.
The product is no longer subject to schedule IV restrictions.—Paines & Byrne,
LTD., Pabyrn Laboratories, Bilton Road,
Greenford, Middlesex, have renamed
their Pabyrn vitaminised liver extract capsules Vitepron capsules, The formula has
been improved, but the packings and prices are as formerly.

German-produced Isonicotinyl Hydrazide.—Neoteben, the brand of isonicotinic acid hydrazide produced by Farbenfabriken Bayer, Leverkusen, Germany, was first prepared in the company's laboratories in 1950 by Dr. H. Offe. Its tuberculostatic properties were assessed by Dr. G. Domagk. The importance of the hydrazine derivatives is understood to have been established at Leverkusen in 1943, as a result of investigations commenced before 1940 into the possible uses of sulphonamides in tuberculosis. At the Congress of Internal Medicine, Wiesbaden, Germany, April 1952, the clinical results obtained in Germany with isonicotinic acid hydrazide in the treatment of tuberculosis since September 1951 were recorded in the Deutsche Medizinische Wochenschrift, May 2.

Standardised Senna.—According to the "Lancet" (March 29, p. 655), "the great

advantage of prescribing a standardised preparation of constant laxative action is that, once the dose for each patient is decided, there should be no griping, since this appears to be a symptom of overdosage." Westminster Laboratories, Ltd., Chalcot Road, London, N.W.I, manufacturers of Senokot, a granular product of senna pods that is understood to retain the full laxative activity of crude senna, point out that the use of a standardised preparation enables the clinician to assess the actual or potential value of senna in a given condition.

#### PHOTOGRAPHIC NEWS

MINIATURE-SLIDE TRANSIT Box.—Most miniature enthusiasts are very particular about the care of their transparencies and should welcome a new box offered for their transit and storage. It is made of white hardwood finished in golden varnish, and is 10½ in, long. Divided into five compartments, it holds 65 transparencies in metal frames, enabling them to be carried or stored in absolute safety. The inside of the completely detachable lid is felt-lined for cushioning and silence. Instrument case catches secure the lid at both ends of the box.

"Gadget" Bag.-For amateur photographers to be able to pick up a bag and know that it contains everything likely to be needed is not only a great convenience but may save lost pictures. The Merit Rollei "gadget" bag, issued by H. E. Leigh, 209 Richmond Road, Twickenham, as agent for the makers, Merit Briefcases, Ltd., 155 Bethnal Green Road, London, E.2, is of brown simulated leather, size  $9\frac{3}{4} \times 7\frac{3}{4} \times 4$  in. The front falls away from the main part of the bag to allow an opening of 10 in. at the top. Contents of the bag are thus easily to hand, yet nothing falls out because pleated gussets are incorporated between the sides and the front of the bag. At the front of the bag is an extra pocket, size  $7\frac{1}{2}$  x  $4\frac{1}{2}$  x  $1\frac{3}{4}$  in., secured by press-stud fasteners. Additional safety is given by a large strap that starts on the rear of the bag and passes over the top, to be secured by a strong brass lock on the face of the pocket. A key is provided. The interior of the bag is lined with blue fluffless suedine, and there is a large pocket for the camera. The Rollei bag would accommodate many other types of camera; there is a special Leica bag for the 35-mm.

## MODERN DEVELOPMENTS IN SOIL SCIENCE

THE Fernhurst lecture by Sir William Ogg (director of the Rothamsted Experimental Station) was given to the Royal Society of Arts in London earlier in the year: his subject was "Modern Developments in Soil Science." The following is an ex-tract:—Certain nodule bacteria, particularly on clover, are practically ineffective in fixing nitrogen. Those strains appear to be characteristic of poor pastures in hilly districts and the possibility is being investigated of improving the clover of such pastures by inoculation with effective strains of nodule bacteria.

#### Discovery of Modern Herbicides

The investigation of the mode of infection of root hairs in clover was incidentally responsible for the discovery of the specifically toxic action on plants of the chlorphenoxy-acetic herbicides now in widespread use. Studies of the secretions of organisms isolated from the soil have led to the discovery of many of the antibiotics which have given such spectacular results

in medicine.

Much of the increase in food production n Britain during and since the war is the result of using more lime and fertilisers, and using them to better purpose. In ooth Britain and the United States, feriliser consumption has almost trebled in he past ten years, but surveys recently arried out in this country have shown hat far too many farmers are still ising inadequate amounts or unsuitkinds of fertilisers. Sugar beet low receives more nitrogen and sodium nd potatoes more nitrogen and potassium han ten or twenty years ago. Cereals ommonly need more nitrogen than they eceive and in many cases could do with ess phosphorus and potassium. There is till much to be learnt about the behaviour f fertilisers and the use of radioactive cacer elements is now contributing to the plution of some of the problems.

The advantage of applying fertilisers lose to the seed instead of broadcasting nem has been well established for cerin crops. The amount of superphosphate equired for cereals can be cut down to bout half by placement. It has been nown that placement is advantageous also ith quickly growing crops with shallow oots such as peas, beans and spinach but ot for deeply rooting crops like sugar eet which have a long growing season.

Attempts have been made in some larters to create a controversy over the respective merits of organic manures and fertilisers. It has been claimed by some advocates of organic manures that fertilisers poison the soil and are injurious to the health of plants, animals and human There is no sound evidence to support those views. The merits of organic manures are fully appreciated by farmers and agricultural scientists alike, but fertilisers are also required and without them there would be world famine.

In older experiments the various treatments were applied to single or duplicate plots but most soils are far from homogeneous and it became clear that a better experimental technique was needed. In the new methods the treatments are replicated and randomised and much greater precision is obtained. The replication provides a measure of the experimental error which was previously lacking and the random arrangement ensures that the estimate of error is statistically valid and unbiassed. Another improvement has been the introduction of factorial arrangements, by which several different sets of treatments or "factors" are included in one experiment and in this way a number of problems can be studied at the same time with considerable economy of space and with the advantage that the dependence of one treatment on the intensity of another can be determined.

#### "Trace" Elements

An important advance in the study of soil fertility, is the recognition of the part played by what are termed the micronutrient or trace elements. It has now been shown that lack of boron is responsible for more than a score of physiological diseases, including "heart rot" of sugar beet and mangolds. Deficiency in available manganese gives rise to "grey speck" in oats, "marsh spot" in peas, and "speckled yellows" in sugar beet. "Pine" in sheep has now been shown to be due to lack of cobalt and the amount needed is so small that a couple of pounds of a cobalt salt, mixed for convenience with a fertiliser and applied to an acre of land, is sufficient to cure or prevent the disease for several years.

Importance of Presentation.—I now add nikethamide, 15 drops thrice daily— a bit of fiddling, I feel sure, does good. It seems to work better than making a halfounce dose of it at the chemist's. A writer in the "Practitioner," January, 1952.

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August 9, 1952

No. 3781

#### Lethal Unlabelled Jars

Another tragic result of the custom criticised previously in these columns of keepng liquids in unlabelled gallipots on pperating theatre trays was heard by a coroner recently (see p. 184). The only way of eliminating such accidents, so far as humanly possible, is for a surgeon or anæsthetist to assure himself, that a liquid of any colour is the one he wants by reading the label on the containing vessel. The speed with which surgeons and others may be called upon to act, particularly in emergencies, no doubt requires that at least some liquids which they may have to use are immediately and conveniently available. It is possible that normal ampoules are not always suitable in those respects. If that is so a conference between surgeons and hospital pharmacists seems to be called for to devise a container suitable from all considerations. Such a container might be, for example, a small, wide-mouthed, stoppered and labelled jar, all of the contents of which would be used on one occasion. Arrangements might be made with advantage for supplies of non-injectable liquids for use on theatre trays to be sent in suitable labelled containers direct from the pharmacy department.

#### A Handicap to N.H.S. Patients

A FORM of medication that has certainly come to stay combines oxygen therapy with the local application of nebulised medicaments to the lungs. The method puts behind the nebuliser the high pres-

sure of oxygen from a cylinder. It requires for its operation a piece of apparatus developed by the Inhalation Institute, Ltd., London: the Collison inhaler (see C. & D., March 29, p. 423). Before the days of the National Health Service use of the Collison inhaler was almost confined to private practice. Recently the inhaler has come into regular use in over 350 hospitals in Britain. Undoubtedly one of the contributing factors in that rapid and widespread adoption was Sir Alexander Fleming's choice of the Collison inhaler as a means of administering penicillin to the lungs, since it appears that the hospitals are chiefly using the apparatus in administering antibiotics. But that application of the inhaler is in fact one of its lesser uses. Its prime function is in cases where oxygen and atomised drugs are simultaneously needed, as in asthma and dyspnæa. under N.H.S., the benefits of the Collison inhaler are available to patients only under the hospital service. It is not permitted at present to be prescribed on EC10 forms. That seems an unwarranted limitation on the prescribing powers of the general practitioners who were once its principal users -a limitation likely, into the bargain, to deprive many patients of much-needed relief, since they are patients of a kind not generally admitted to hospital and not ordinarily seen by hospital specialists,

## Fewer Prescriptions

That the greatest reduction in the number of National Health Service prescriptions dispensed during the first month of operation of the shilling levy took place in industrial towns has been found independently by the National Pharmaceutical Union (C. & D., August 2, p. 139) and the Ministry of Health (see p. 185). The Ministry's analysis, in addition, shows that the average reduction correlates accurately with the Minister's forecast (C. & D., July 12, p. 40). The greatest surprise is probably the variation of the levy's apparent effect in different parts of the country, notably in Westmorland, where there was an increase in the number of prescriptions dispensed of over 13 per cent. That county and the North Riding of Yorkshire, another district in which an increase was recorded,

were, however, among the areas with the smallest prescription-per-form ratios. North Riding and a number of agricultural districts in Eastern England actually showed a decrease in the number of prescriptions per form, in contrast to the general trend. Doctors in industrial areas increased the ratio while they reduced the number of prescriptions, and it is noteworthy that the drop in the number of forms throughout England and Wales is a third more than the drop in prescriptions. Ministry's figures do little to indicate the effect on the cost of the pharmaceutical services but the fact that the number of prescriptions in the "S" portion of chemists' prescriptions was 4 per cent. higher than for a year ago, and that the average cost of a prescription rose by about a farthing more than it might have been expected to, must be considered against the net reduction in numbers. Information on the degree to which the prescribing of elastic hosiery has been affected might have been useful but as pricers would have had to be taken off their normal duties for this chemists will not grudge the absence of that information.

#### Apprentices on Apprenticeship

ALTHOUGH a full report on conditions in apprenticeship in Britain might bring strongly to light useful facts the report just issued by the students' own organisation (see p. 185) suffers from the disadvantage of not making clear the number of apprentice cases examined. Nevertheless it serves as a reminder of the fears expressed by private pharmacists concerning the relative numbers of apprentices being trained at multiple and private pharmacies, for the replies received from multipletrained apprentices exceeded those from others by more than 2:1. According to those who answered the questionnaire multiple pharmacies paid better, gave probably better holidays and more facilities for study than private pharmacies and apparently insisted more on records of work being kept by the students. Apprentices from private pharmacies appeared to do more dispensing than the others; fewer spent at least 50 per cent, of their time

in the shop, and a fifth of them did n shop work. That, however, is a doubtfu advantage.

One Cause of Deficiencies

REPORTS of investigations by local Phan maceutical Committees into prescription taken under the drug testing scheme from time to time suggest that in a dispropor tionately large number of them there ha been a serious deficiency of liquefied phe nol in such preparations as garg. por chlorat. et phenol, N.F. Another offende is glycerin of phenol in garg, phenol., N.H. In practically all the cases reported th dispenser has given as his explanation th fact he omitted to rinse out the measure These facts serve to illustrate the value of the old rule that a measure is graduated to hold and not to deliver. If the rule were always strictly observed there would be fewer difficulties over test prescriptions

## ECHOES OF THE PAST THE VOLATILE BALSAM

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## EXPERIENCES OF A NAVAL PHARMACIST 1940-46

By J. Bowman, M.P.S., Chief Pharmacist, Admiralty (ex Lieutenant-Commander (S.P.) R.N.Y.R.)

ENTERED the Admiralty Service in the basic established grade of pharmacist November 1928, aged twenty-two, a ar after qualifying. The career proscts in the Admiralty appeared good, and was highly competitive to gain entry; I



felt satisfied with choice. my ambitious to reach the higher grades in later years. The young pharmacist joins the Admiralty service on the understanding that he is prepared to serve in any of the Royal Naval Medical Establishments to which he may appointed at home or abroad.

Early in January 940, while I was serving as senior harmacist at the Royal Naval Hostial, Haslar, Gosport, Hants, I learned hat I had been selected for service 1 the Far East and appointed senior harmacist at the Royal Naval Hospital, Ing Kong. In the excitement of the toment the dangers and horror of the var were temporarily forgotten.

The voyage out via Malta, Port Said, den, Bombay, Colombo and Singapore vas uneventful. Five weeks after leaving outhampton we entered the picturesque arbour of Hong Kong and disembarked t Kowloon on the mainland of China. The following day I reported for duty to he Medical Officer in Charge of the R.N. Hospital on Hong Kong island. My duties were twofold: (a) the administration of he pharmaceutical department in the hospital, and (b) the issue of medical supplies o H.M. Ships on the station, including H.M. Ships on patrol on the Yangtse River.

My staff consisted of one pharmacist who unfortunately was taken prisoner by the Japanese after the fall of Hong Kong and died in Japan). The pharmacist carried out all the dispensing for the Hospital and other duties connected with the internal pharmaceutical work of the establishment. I could therefore concentrate on maintaining supplies to the Fleet and

Admiralty establishments ashore, stocktaking, the preparation of demands to replenish stock and the many other reports required by the medical officer-in-charge.

required by the medical officer-in-charge. The status of an Admiralty pharmacist is that of a civil officer of the establishment and he enjoys socially, if not financially, many of the privileges of the medical officers. The medical officer-in-charge at Hong Kong holds the rank of surgeon

captain R.N.

In the Hospital there existed the closest co-operation with all members of staff, and we enjoyed "a happy ship." In leisure hours we could enjoy golf, tennis. bathing, motoring, walking, riding, etc. A number of clubs too were open to Europeans, so that Hong Kong could be very enjoyable. The climate is good, apart from about two months in the season when it is very humid."

#### Transferred to Singapore

In January 1941 I was transferred to Singapore. My instructions were to establish as soon as possible a medical supply depôt there for the Fleet. This was an entirely new venture and called for considerable tact. Buildings within the naval base were few, especially of a type which could accommodate and store safely the wide range of drugs, chemicals, surgical instruments, dressings, etc., needed by the Navy, under conditions where the temperature remains at the 90°F mark throughout the year. Arrangements were made to transfer from Hong Kong certain stores to meet requirements for the newlyestablished depôt in Singapore, and later, to expect initial supplies arriving from the United Kingdom.

My staff consisted of Indians (Tamils), Malay-born Chinese and Malays, It soon became apparent that with the changing fortunes of war, Singapore would be destined to play a vital part if the war de-

veloped in the Far East.

About that time the heavy Fleet units H.M.S. Prince of Wales and H.M.S. Repulse arrived to strengthen the Far East Fleet. I was given instructions to place on board additional medical stores as required by the senior medical officers, to meet any emergency. Little did we know what tragedy lay ahead for those gallant ships and their brave crews.

#### Japanese Attack

In the early hours of December 7, 1941, the Japanese attacked Singapore by waves of bomber aircraft, the attacks increasing in intensity. The most essential medical stores were safe, however, as they had been placed in underground store rooms, built on my recommendation, to meet such an emergency.

Early in January 1942 I volunteered to go to Kuala Lumpur in an effort to transfer from there to Singapore scarce medical stores, and to prevent them from falling into the hands of the oncoming Japanese Forces. My effort failed. The Japanese had fought their way down the Malay Peninsula and made use of local conditions to infiltrate down the coast. I was instructed to return to Singapore as best I could. Fortunately I was able to get on the last train, one of the few trains which left Kuala Lumpur for Singapore. The journey was a nightmare. About January 31 many of the Admiralty personnel (including myself) were evacuated from the Singapore Naval Base. We were taken off in an armed merchant cruiser of the United States Navy, and reached Ceylon by way of Java and the Sunda Straits.

Äfter about two months in Ceylon I was seconded for duty on the staff of the Fleet Medical Officer, Eastern Fleet. After the Japanese air attack on Ceylon, the Commander-in-Chief, Far East Fleet, then Admiral Sir James Somerville, based his Fleet on Kilindini, British East Africa. It was my duty to establish a new medical depôt there in yet another land strange to me.

The medical department at the Admiralty had dispatched our initial stores for this depôt by the sea, but the ship carrying the stores was sunk by an enemy submarine. The Fleet Medical Officer called me into consultation and it was arranged that I should proceed by air to South Africa to obtain sufficient stores from the Defence Headquarters in Pretoria to tide the Navy over, pending arrival of supplies from the United Kingdom. The South Africans were most helpful, and within three weeks our urgent requirements had arrived, making safe the supplies for the Fleet.

In September 1943 I returned to the United Kingdom, but after nine months' service in a home hospital I was again appointed for special duties with the Fleet in the Far East. I left by air for Durban, flying via Rabat and Castel Benito to Cairo. Thence by flying boat down the

Nile to Khartoum and on to Kassumu of Lake Victoria, and finally via Kilindini Mozambique in Portuguese East Afric and Durban.

#### On the Vice Admiral's Staff

After a short tour of duty in Sout Africa, I was instructed to proceed Ceylon, and later, to join the staff of the Vice-Admiral British Pacific Fleet in Au tralia. My duties in this command wer most interesting. I was granted a "time only" commission in the R.N.V.R. in th rank of lieutenant-commander. My dutie included considerable liaison work with th Australian Commonwealth Naval Board We were now almost entirely dependent of the resources of the Commonwealth to establish an efficient Fleet medical suppl organisation. The pharmaceutical organ isation in the Royal Australian Navy wa extended to meet the requirements of the British Pacific Fleet. A hospital with ove one thousand beds was established and equipped at Herne Bay on the outskirts of Sydney, New South Wales. The pharma ceutical department was in the charge of a superintendent pharmacist from the United Kingdom.

Towards the later months of 1944, the strength of the Royal Navy in the Pacific had greatly increased. The maintenance of that Fleet, when at sea, called for considerable planning. It was my duty to ensure that supplies of medical stores were adequate and available when required; and to replenish depleted stocks while the Fleet was at sea.

#### 3,000 Miles from Base

I was instructed to fly from Sydney to the Philippines, the Fleet anchorage, and to report to the Staff Medical Officer on the staff of the Flag Officer, fleet train. I was to meet the senior medical officers and discuss with them how best we could maintain our supplies some three thousand miles from the Australian Base in Sydney. A few days later I returned to Sydney and reported to my chief on the vice-admiral's staff. It was decided to use certain victualling-store issuing ships to carry the most urgent types of medical stores, e.g., penicillin, blood plasma, sulphonamide drugs, morphine, dressings, etc. Each ship provided about 8,000 cubic feet of storage space for medical stores. A sick berth petty officer (D.C.) (a pharmacist in civil life) was placed in charge. He was responsible for the issuing of stores in the forard areas. Replenishments for store ships are made from naval store carriers, or nen the ships returned to the base in inducy. Other facilities for maintaining in medical supply organisation at sea ad been agreed upon but never put into tive operation.

The experience gained in the Pacific eatre of war was invaluable to me as a aval pharmacist. I feel now, on looking ack, that it was a privilege to have served the staff of the Vice-Admiral British acific Fleet, and to have gained some exerience of a staff officer's many duties.

Following the surrender of the Japanse Forces, I was closely associated in adding to Hong Kong, Singapore and ormosa urgent medical supplies for the

treatment of the prisoners of war. The arrival of those supplies, almost hours after the surrender, brought much-needed aid to the Allied Forces. In July 1946, after almost six years of service in the Far East and South West Pacific, I returned to the United Kingdom and to the Admiralty to report. The success of the Fleet medical supply organisation in so many countries far distant from the United Kingdom was made possible by the close liaison and good friendship which existed between other fighting Services, and in particular, the Directorate Medical Services, Royal Australian Navy.

I am indebted to the Medical Director General of the Navy for kind permission to

publish this article.

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By R. G. Atkinson, Ph.C.

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4. 735. Synthesis and structure of some colhicine derivatives. (M. N. Shchukina, G. M. Borodina, Yu. N. Sheinker.)

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760. Synthesis of componds with anti-thyroid ction. III S-methyl-6-derivatives of thiouracil. I. B. Simon and I. I. Kovtunovskaya.)

773. The alkaloids of some varieties of the bean amily. X. New alkaloids from *Piptanthus nanus* M. Pop. Piptantin and piptamine. (R. A. Konovaova, B. S. Diskina, M. S. Rabinovich.)

5. 959 and 962. The saponin (and sapogenin)

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A. M. Sokol'skaya.)

967. Investigation of the alkaloids of Delphinum oreophilum III, Alkaloids of the Ranuncuaceæ family. (S. Yunusov and N. K. Abubakirov.) 8. 1537. Synthesis of some derivatives of nicoinic acid. (I. B. Simon.)

9. 1717. Synthesis of anthelmintic compounds of the coumarin series, (I. Ya. Postovskii and M. A.

Panyukova.)

Gigiena I Sanitaria, 1951.

1. Influence of vegetation, etc. on the vitamin-Content of plant objects. (M. I. Kazakova.)

2. Polarographic determination of saccharin. (N. Ya. Khlopin, I. S. Litvinova, and K. P. Privalova.)

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6. Results of testing DDT soap. (S. G. Gladkikh.)

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Bactericidal properties of some cresol compounds. (B. I. Gandel'sman and F. Ya, Kavenoki.)
 Review by B. I. Yanovskaya of a book by

B. A. Lavrova and A. I. Shtenberg entitled "Methodical supervision in the determination of vitamins C, B<sub>1</sub>, D, A, and carotene in foodstuffs and vitamin compounds."

ZHURNAL TEKHNICHESKII FIZIKI, 1951 (21).

10. 1205. Biological and chemical processes in

the field of ultrasonic waves. (I. E. Elpiner.)
MICROBIOLOGIYA, 1951 (20).

2. 140. Effect of solid substances, stirring and temperature on alcoholic fermentation. (L. I. Komarova.)

**5.** 406. Dynamics of vitamin B<sub>2</sub> in Aspergillus niger in relation to the conditions of its growth. (G. G. Levin.)

5. 434. Effect of certain substances from garlic on phytopathogenic bacteria. (N. A. Shishelova.) BIOKHIMIYA, 1951 (16).

2. 176-85. A chemical method for the estimation of vitamin D in fish oils. (I. N. Garkin and V. N. Bukin.)

2. 171. A microbiological method of determining folic acid using readily available media. (G. N. Pershin and L. I. Shcherbakova.)

3. 199. The technique of determining vitamin C in coloured plant extracts. (D. I. Bel'tsev.)
LESNOE KHOZYAISTVO, 1951.

3. 94. Planting of olive trees in Albania.

PRIRODA, 1951.

2 (Biochemistry). 67. A new method of fluorescent determination of adrenaline in aqueous solutions and in blood.

3 (Chemistry). 48. Ultra-sweet substances; synthesis of tuberic acid.

3 (Microbiology), 58. Synthesis of iodoform by actinomycetes,

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(A. B. Taubman.)

767. Investigation of the fading of methylene blue under the action of Röntgen rays. (Ya. L. Shekhtman, A. A. Grasnovskii and I. V. Vere-

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PROBLEMY TUBERKULEZA, 1951, 3.

Miscellaneous papers on streptomycin and PAS. TERAPEVITICHESKII ARCHIV, 1951, 23.

3. 63. Effect of sulphonamides and penicillin

on thiamine metabolism. (A. S. Acharkan.)
4. 80. Hæmatopoiesis in vitamin C deficiency. (V. IA. Chekin.)

USPEKHI KHIMII.

1950 (19.4). Advance in the knowledge of the structure of starch. (S. Ya. Frenkel.)

1951 (20.3.273). New data on the chemistry of the p-amino-acids. (V. M. Radionov).

336. Synthesis of compounds with vitamin A activity. (B. G. Savinov and G. S. Tret'yakova.) DOKLADY VSESOYUZNOI ORDENA LENINA AKADEMII

SEL'SKOKHOZYAISTVENNYKH NAUK IMENI V. I. LENINA, 1951 (Vol. 16, pt. 1).

Increasing the yield and oil content of mustards (Brassica juncea L., Czern.). (L. A. Zhdanov.) BOTANICHESKY ZHURNAL, 1951 (36).

1. 47. On the industrial use of wild plants'

fibres. (B. Ya. Rosen.)

54. Variations in the gossypol of some species of genus Gossypium. (A. M. Goldovsky and the genus Gossyp M. Z. Podolskaya.)

SOVETSKAYA ZOOTEKHNIYA, 1950. 11. 74. The use of coriander grist and waste products of aniseed in cattle feed. (M. Sezemov.)

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12. 4. 39. Vitamin PP content of milk. (R. Davidov and L. Gulko.)

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29. 10. 13. Administration of penicillin associated with colloid solutions. (D. M. Grozdov, F. I. Bolotnikova, and I. V. Danilova.)

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4. 40. Alkaloidal content of hellebore and toxicity of its aqueous decoctions (V. I. Nanobasvili.) ZHURNAL ANALITICHESKOI KHIMII, 1951.

6. 4. 257. Polarographic determination of acrolein

in glycerin. (A. S. Kirillova and I. A. Kolshim

SOVETSKOE ZDRAVOOKHRANENIYE, 1951.

4. 37. On the organisation of regional Pu Health Service. (E. B. Arbuzov et al.)

3. 14. Conditions and perspective in the study history of Soviet Public Health. (M. I. Barsuki

"The achievements of Soviet Medicine and tasks." N. Anichkov, VOKS M 1951. See al " Medical Services in the Soviet Union." M. I ber. "Lancet" (1951.2.775).

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77. 2. 317. Biosynthesis of riboflavine in woun plants, (K. L. Povolotskaya and N. I. Zaitse 77. 4. 729. Regularities in variation of posize. (N. N. Ovchlnnikov.)

1951. (81). 6. 195. Microsynthesis of prussic at (V. I. Maymind, B. V. Tokarev, M. M. Shem

207. Stability to heat of some sulphur compour (M. G. Rudenko and V. N. Gromova.)

421. Investigation into the synthesis of a rai of the alkaloids of ipecacuanha and cinchona ba 609. A new method of obtaining the pilocarp alkaloids. (N. A. Proobrazhensky, M. E. Maso and G. V. Smirnova.)
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"Indian Hemp." Ed. I. I. Sankov. Sel'khozg

Moskva, 1950.

"Practical handbook to the biochemistry plants, etc." Sovetskaya Nauka, Moskva, 1951. "Dictionary of poisonous plants and of plan

used in medicine and essential oil production Sel'chozgiz, Moskva, 1951. "Useful wild plants of the U.S.S.R." S. S. Sta

kov. Sovetskaya Nauka, Moskva, 1951.

"Russian-English polytechnic dictionary." L.

Kondratov, Moskva, 1948.

"The production of vitamins from vegetable at animal raw materials." L. O. Shnaidman. Moski

1950. "Methods of determining ph." E. N. Vinogr dova. Izd. Moskovskogo Universiteta, 1950.

"Therapeutic Handbook," 2 vols. Moskva, 1950.

"Actinomycetes antagonists and antibiotic su stances." N. A. Krasil'nikov. Izd. Akad. Nat S.S.S.R. Moskva, Leningrad, 1950.

#### SCIENCE MUSEUM LIBRARY (S.W.7)

The following addition is noted by kind pe mission of the Keeper.

"Comparative study of various methods of d termining free chlorine and chloramines in water. Zavodskaya Laboratoriya, 1950, 16 (7), 793-79 Lur'e, Yu. Yu. and Nikolaeva, Z. V.

Readers wishing to refer to the original pape

should contact the authorities mentioned, or National Central Library, Malet Place, W.C.2 Science Section, Society for Cultural Relations wit the U.S.S.R., 14 Kensington Square, W.8, bu few complete translations are available.

## MALL-SCALE MANUFACTURE OF INJECTIONS

By D. Etchells, B.Sc., Ph.C. (chief pharmacist, Christie Hospital and Holt Radium Institute, Withington, Manchester, 20)

## 4.—Labelling and Special Considerations

URING heat sterilisation some containers of injection solutions may have eaked or cracked. That can readily be een with multi-dose and transfusion ottles but not with ampoules. Immediately fter steam sterilisation and while still hot, impoules should be plunged into cold coloured solution, when, following conraction of the air inside the vial, dye olution enters any cracks or holes. The aulty products can readily be seen and ejected. Ampoules may also be sterilised in a dye solution and allowed to cool aturally. A third process entails the use of a suitable vacuum device, where the cooled ampoules are placed in the dye olution in vacuo. On release of the vacuum faulty products can again be deected easily.

#### Visual Examination

After rejection of the damaged containers, all products should be examined for traces of foreign matter. Ample lighting is essential and the solutions should be viewed against a dark background to get the best possible view. The use of an ordinary desk-lamp is satisfactory. A standard of pass and fail of products should be aimed at,

For dispensing purposes printed labels are probably the best, where small regular supplies are manufactured. The labels should be clear, contain exact details of dose/volume, and any other information prescribed by the Dangerous Drugs, and Pharmacy and Poisons Acts. To prevent loss of paper labels on transfusion and multidose containers not for immediate use, the labels should be covered with strips of clear cellulose tape, several makes of which are available. Neatness of label adds the finishing touch to the elegance of the product. For larger scale production a Rejafix printing machine (made by Rejafix, Ltd., 81 Fulham High Street, London, S.W.6, see C. & D., February 16, pp. 213-14) is worthy of consideration. It saves time and finds uses in other aspects of pharmacy. Indelible ink, which is fired into the surface of the container, should be used where possible. Firing-in may be done using two half-kilowatt flat heatingelements placed parallel and about 2 in.

apart. The labelled ampoules are placed on a rack between the surfaces. The use of a hot-air oven can be tried, but a temperature of about 300°C. is necessary. The ordinary printing ink, Glurpex, which surface-prints only, will withstand normal handling.

#### Aseptic Filtration

Where the medicament is thermolabile the only method of sterilisation is aseptic filtration through a bacteria-proof filter. If this is undertaken the final product must be rigidly tested for sterility as laid down in the Pharmacopæia. The two most useful bacterial filters are probably the sintered glass filter, known as "a five on three," the object of a combined two-porosity filter being to reduce the rate at which the No. 5 filter becomes blocked. A seitz asbestos pad filter is safer than the sintered type. Small seitz filters are available in resistant glass or metal and for dispensing purposes one of 3 cm. diameter is normally sufficient. Such a filter should always be placed above a No. 3 sintered filter otherwise, because of its fibrous nature, it will contaminate the solution with foreign matter. Extra aseptic care has to be taken in this method of preparation. All equipment and containers should be sterilised by the appropriate form of heat, the bench should be well swabbed with chloroxylenol solution, and the operator should use fine sterile rubber gloves and mask. The whole of the packaging should be done under a dispensing screen. The use of a combined filter and packing unit, and glass equipment which can be connected with ground glass joints are especially suited to this type of work. Unfortunately for small-scale work the routine of testing for sterility of the final product and the cost entailed in the purchase of an incubator may prove an obstacle.

#### Oily Injections

The routine for preparing parenteral injections, in oily media, follows closely that for aqueous injections. The use of a No. 4 sintered glass filter will probably be found too difficult, when using an ordinary water pump, as the source of negative pressure, and a filter will have to be chosen for each particular need. Ethyl oleate as the vehicle has come to the fore recently and is preferable to arachis or

olive oil on account of its constant composition and stability. Where the medicament is thermostable, sterilisation may be done in the final container by heating at 150° C, for one hour: if thermolabile, the vehicle should be sterilised and the injection prepared aseptically. After sterilisation and cooling, the containers should be examined for leakage as for aqueuos solutions.

At one time efforts were made to prepare as many parenteral solutions as possible isotonic with blood serum, the purpose being to increase the rate of absorption of the medicament in the tissues, and to reduce local pain and reaction. trend now is to concentrate the need for isotonicity to the larger volume injections and where speed of administration is necessary. The British Pharmaceutical Codex 1949 lists substances (p. 1159) which may be used for adjusting the osmotic pressure of drug solutions to that of serum. Pharmacopæial injections are so adjusted. Transfusion solutions are normally isotonic, but recently the use of hypotonic saline of 0.225 per cent. sodium chloride has been used fairly extensively in intravenous infusions. Boric acid should never be used as an adjusting substance for parenteral injections, since it causes hæmolysis in almost all concentrations.

#### Hydrogen-ion Concentration

Many medicaments in solution are only stable at a certain ph value and it is important that if they are to be heat sterilised and stored the solutions should be at optimum pн. An example is injection of adrenaline tartrate B.P., where the satisfactory phrange is 3.2—3.6. Most local synthetic anæsthetics rapidly hydrolyse outside the proper range of acidity. Colorimetric determinations of pH are sufficient for all normal parenteral injections undertaken in the pharmacy. With the use of standard sets of colour comparator tubes the ph of the injection under preparation can be adjusted easily. A sample is taken, a correct amount of indicator added, and the colour compared with the standard tubes of known рн. Injection of calcium gluconate B.P., is worthy of special mention, for it is a supersaturated solution and is therefore likely to crystallise out on storage if even a minute foreign particle is present. The United States Pharmacopæia mentions the use of calcium d-saccharate or other therapeutically inert calcium salts as stabilisers. The added amounts of calcium salts should not exceed 5 per cent, of the total

calcium present as gluconate. To er greater stability sufficient sodium hyc ide may be added to produce a pH above 8.2. While this is not offic permissible in Britain several proprie forms of the injection are based on principle.

#### CORRESPONDENCE Pharmacy and the Law

SIR,—It is rather a sad reflection just when the Pharmaceutical Societ endeavouring to raise the status of p macy, we are having introduced service stores" where customers themselves to proprietary medicines. S a state of affairs has been pronounced I by the Lord Chief Justice. That being case we should drop disillusioning ourse that we are a profession. Surely it is t for retrenchment in the laws relating pharmacy. I shudder to think what French pharmacist friends will say w they learn of this latest venture. Have anyone in our ranks strong enough to a return to real pharmacy without s appendages as toilets, groceries, crock etc.?

Yours faithfully, St. Andrews. A. W. KEITH

#### Mysore Sandalwood Oil

SIR,-My attention has been drawn the publication in the "Daily Mail," J 17, of a statement to the effect t Mysore Sandalwood oil "may soon come a perfume of the past, at any r in this country," due to the cost of fell and distillation. While I was amused read this, it is my duty to assure to manufacturers how erroneous the sta ment is. The Government of Mysore be in a position to supply the worl market on sandalwood oil for many ye to come-perhaps for centuries! Adn tedly, the cost of production has gone tremendously, but the demand for the continues.

Yours faithfully R. K. MURTY London, W.I. for Trade Agent, Government of Myso

This Modern Age.—A prize-winni photograph reproduced in the "Son African Pharmaceutical Journal" shows proprietary having its label soaked off a measure of water. Beside it are a p scription, fountain pen and written lab The picture is entitled "Modern Art Dispensing.

## OVERSEAS PHARMACY LAW

By Charles Stevens, LL.B., M.P.S., Barrister-at-Law

#### 7.—Switzerland

Federal Republic of Switzerland is posed of twenty-four cantons, each of h is autonomous in most matters of phareutical legislation. Each has its own tary or health authority, with which Federal Government has no power to rfere, but one pharmaceutical qualifion is accepted throughout Switzerland. harmacy students in Switzerland study iniversities and to qualify as pharmamust pass a Government examination. examinations are held at the universiand are supervised by members of Government medicinal examination mission. The government certificate les the holder to practise throughout zerland but a special permit must be ined from the canton health authoriif he wishes to start a business. Each on keeps a list of pharmacists practiswithin its jurisdiction, but there is no ttory register of pharmacists for the le of the country.

here are no legal restrictions to prea pharmacist from owning more than pharmacy, but although multiple shop macy is allowed legally it is almost unwn in practice. A pharmacist must be harge of each pharmacy and he is held onsible for any infringement of the

s and regulations.

#### cialities Controlled

ach canton exercises legal control of maceutical specialities. The Intertonale Controlistelle für Heilmittel, at the examines specialities, however, to that they comply with the law, and its certificates on their acceptance. By agreement among the cantons, if a iality has been accepted by the intertonal body it does not require registraagain in the different cantons.

he Pharmacopæia Helvetica and its blements lists those pharmacopæial gs and preparations that are legally rolled poisons. • Except for narcotics, list comprises only some thirty-six is, but the cantons or the Federal ernment can publish lists from time to bringing other drugs within the poiregulations. The Pharmacopæia lists prietary equivalents to pharmacopæial is and preparations beneath the pharopæial monographs—for example, unacid acetylosalicylicum is "Aspirin,"

"Aceticyl," "Acetyline," and "Acetysal." A list of antidotes to official poisonous products is set out in an appendix. The Pharmacopæia has legal force throughout the Swiss Federation under the authority of the Federal Department of the Interior.

#### Packing and Labelling

The law states that poisons must not be dispensed or sold in containers used for foodstuffs, such as wine, beer, lemonade or mineral water bottles and, if a poison is intended to be taken in drops, prescriptions must always be dispensed either in a dropper bottle or a dropper must be supplied with the bottle. Solid preparations intended for external use must carry a red label or a white label with red characters stating "for external use." Liquids intended for external use (which include gargles and vaginal washes) must be dispensed in hexagonal or octagonal bottles, ribbed on three sides and labelled as described for solid external preparations. The bottles may not be used for any preparation intended for internal use.

In addition to poisons, Swiss law lists a number of preparations in the Pharmacopœia under the title Separanda. They are medicaments that have a strong action and must be stored and used with Their containers must bear label stating the name in red letters on a white ground. For dispensing they are subject to the same rules as poisons. Among the Separanda are acetone, ether, silver proteinate, squill bulbs, caffeine citrate, copper sulphate, and oil of chenopodium. All drugs and medicines apart from those dispensed on doctors' prescriptions, must be labelled with the name of the drug and, for listed poisons, a quantitative statement. There is a move to insist that all veterinary products should be labelled in black print on a yellow background but it has not yet become law.

Dangerous drugs and narcotics in Switzerland bear a special hexagonal label, consisting of a white cross on a red ground with the letters "BM" in black, one letter each side of the cross. Switzerland adheres strictly to the international narcoties

agreements.

There is no therapeutic substances Act in Swiss legislation and the quality of products such as penicillin, streptomycin and vaccines is controlled solely by pharmaco-

pœial standards. Legislation similar to the Pharmacy and Medicines Act, 1941, of Great Britain is unknown and in law there are no restrictions on advertising remedies for any disease, although there is a Swiss law against the sale of abortifacients. Advertising is controlled, however, by the Inter Kantonale registration authority, which disallows any advertising that it

considers untrue or unethical.

As in most of Europe, there are Acts controlling shop hours of open of pharmacies, but both the cantons at the federal bodies lay down strict rules the conduct of pharmacies. There is national health service in Switzerla but a number of private sick insurans are in operation.

## MEDICAL ABSTRACTS

A New Antimalarial .- Goodwin (" British Medical Journal," 1952.I.732-33) reports a satisfactory trial on himself, of Daraprim · (2:4-diamino-5-p-chlorophenyl-6-ethylpyrimidine) as a malarial suppressant. When working in Africa the author decided to test the drug by (a) taking more than necessary to suppress malaria and watch for toxic effects, and (b) to come into contact with infected mosqui-toes. For the first three months the dose was 50 mgm, twice weekly, and for the next three months 25 mgm, daily. The dose was then reduced to 5 mgm. and continued daily. No ill effects were noticed and the author was satisfied that he had been exposed to infection. group of volunteers in England, twice weekly doses of 50 mgm, caused no toxic effects.

Sealed Drainage System for Wounds .-Quoting the enthusiastic appreciation of nurses as ample testimony to the value of his method, Sheppard ("Lancet," 1952.1. 1174) describes a technique of sealed drainage of operational wounds that col-lects serum with no or little disturbance of dressings, replacing the frequent changing of expensive dressings necessitated by open drainage. The method involves the use of rubber latex tubes, with collecting ends perforated at the ends. The tube is securely fixed to the skin (with a clove hitch). Wound and sutures are dusted with penicillin and sulphadimidine, and covered with dry gauze secured with adhesive tape. The author states that the comfort of the patient, cleanliness of garments and bed-clothes, and healthy ap-pearance of the wound give convincing evidence of efficient drainage, and that much saving has been achieved in the use of dressings as well as in time and labour.

Self-experiments with Short-acting Relaxant.—In experiments in which the author was the subject, Mayrhofer, Vienna ("British Medical Journal, 1952, I, 1332-34) found that the relaxation of muscles

by succinylcholine chloride is rapid, that the muscles are effected in the sa sequence as with other curarising agei The resulting paralysis lasts from one several minutes according to the de Recovery to full respiratory power occ within three minutes after the first mo ment of the diaphragm, even follow heavy dosage. The following range uses was suggested by the experimen (1) To provide relaxation in abdomi and thoracic surgery (in which a continu drip of 0.1 or 0.2 per cent, in saline recommended). (2) To facilitate en tracheal intubation. Care must be tak however, to avoid coughing or "buckin on the tube owing to the rapid return muscular power. (3) To overcome sev laryngeal spasm. (4) As an adjuvant electric convulsion therapy—for which is the "ideal" drug.

Methonium in Hypertension. — Can bell and Graham ("British Medical Jo nal," 1952.1.251-52), using methonic compounds orally for the treatment hypertension, found that in twenty-th of thirty-five patients treated daily w 2-3.5 gm., there was a good symptoma improvement with regression of the sig Hexamethonium also produced a symp matic improvement in five patients w severe chronic nephritis and two w malignant hypertension. Tolerance de loped more rapidly to M. & B. 1863 anologue of hexamethonium) than to otl methonium compounds. Locket and otl workers (ibid. pp. 254-58) tried M. & 1863 orally in essential or malignate hypertension and in severe hypertensi due to toxæmia of pregnancy or chro nephritis, but obtained no more satisfa tory results than would be expected from oral pentamethonium bromide or he: methonium bromide or bitartrate. Spe taneous thrombosis of the axillary arte occurred in one patient receiving M. & 1863, and another patient apparently ( veloped malignant hypertension while ta ing it by mouth.

## GUIDE TO NEW MEDICAMENTS

formation about new proprietary medicaments to be supplied principally on prescripons. Editorial recommendation is not implied. Reprints obtainable on application.

#### MIOTROL

ANUFACTURER: Oxo Ltd. (Medical Department), Thames House, London, E.C.4.

ESCRIPTION AND FORMULA: Tablets, each containing: Methyl testosterone, 2.5 mgm.; and stilbæstrol, 0.25 mgm.

IDICATIONS: Menopausal disturbances and male climacteric. Premenstrual migraine, tension, and dysmenorrhœa.

OSAGE: Menstrual disturbances and male climacteric one to three tablets daily. Other conditions one to two tablets daily from the tenth to twenty-fourth day of the cycle.

OW SUPPLIED: In bottles of twenty-five, 100 and 500 tablets.

RST ISSUED: May, 1952.



#### SOPRONOL

IANUFACTURER: John Wyeth & Bro., Ltd., Clifton House, Euston Road, London, N.W. 1.

ESCRIPTION AND FORMULA: An ointment containing: Sodium propionate, 12.1 per cent.; propionic acid, 2.7 per cent.; sodium caprylate, 9.8 per cent.; zinc caprylate, 4.9 per cent.; dioctyl sodium sulphosuccinate, 0.15 per cent.

NDICATIONS: Fungus infections of the skin,

SE: Apply morning and night after cleansing the affected parts. To be continued until healing occurs and for several weeks thereafter.

low Supplied: In 1-oz. unbreakable tubes. First Issued: June, 1952.



#### KATONIUM

IANUFACTURER: Bayer Products, Ltd., Africa House, Kingsway, London, W.C.2.

ESCRIPTION AND FORMULA: A flavoured mixture of synthetic cation exchange resins, containing 75 per cent. ammonium polystyrene sulphonate and 25 per cent. potassium polystyrene sulphonate. It is a water-miscible powder.

NDICATIONS: Congestive heart failure, cirrhosis, nephrosis, hypertension and other conditions where a salt (sodium)-free or low-salt diet is necessary. Contra-indica-TIONS: In lower nephron nephrosis and probably in the presence of severe renal insufficiency, glomerulonephritis, oliguria and anuria.

OSAGE: Average dose is 15 gm. twice or thrice daily, with meals. Dosage can be adjusted to meet individual needs. It may be mixed with any liquid or food.

CTION: The resin accepts sodium ions present in the intestinal contents, in exchange for ammonium and potassium ions liberated from the resin. This cationic exchange limits the availability of the sodium in the diet, thereby indirectly reducing the excessive sodium concentration of the body's extra-cellular fluid.

low Supplied: In tins of 1 lb. and 7 lb.

The use of the preparation should be confined to hospitals for further observa-tion. The possibility of sodium depletion should be borne in mind during use of the preparation. FIRST ISSUED: May 1952 to hospitals only.

EFERENCES:
Currens, Counihan, Rourke, "Journal of Clinical Investigation," 1950, 29, 807; Kraus, ibid, 829; tcChesney and McAuliff, "American Journal of Physiology," 1950, 160, 264; Barker, Mackary and wans, "Lancet," 1951, 261, 758; Beck and Goodman, "Federation Proceedings," 1951, 10, 11; Hoobler, Bulletin of the American Society of Hospital Pharmacists," 1951, 8, 90; Lippman, "American Journal of Medicine," 1951, 10, 776 and "Archives of Internal Medicine," 1951, 88, 9; McChesney, "Journal of Aboratory and Clinical Medicine," 1951, 38, 199.

## TRADE REPORT

Spot quotations for pharmaceutical chemicals represent the prices for wholesale quaties of standard quality. Prices of crude drugs and essential oils vary as to brand or gri

LONDON, AUGUST 6
WITH many factories closed for staff holidays there was little consumer demand on home account in any of the markets during the past week. Makers' prices for Anyl alcohol and Anyl acctate were reduced. Full allocations for Glycerine are being restored to those firms who since December, 1951, have been receiving reduced supplies. The major price changes in pharmaceutical chemicals were an increase in the rates for Potassium permanganate (the B.P. grade is twopence per lb, higher and the technical quality is 19s, per cwt. higher) and a reduction in Tartaric acid of 15s, per cwt.

There was no business in new-crop ERGOT and the prices of Tinnevelly Senna Leaves and Pods remained at the previous week's levels. Chinese Menthol continued firm, African Ginger rose 10s, per cwt. There was little demand for Shellade either in London or Calcutta and all grades were marked down by about 10s, per cwt. Total Indian exports of shellad during June amounted to 27,380 packages of which the United Kingdom bought 11,337, and the United States, 4,933. Prime Carnauba wax at 1,220s. per cwt. was

again firmer on the spot.

In the Essential Oils market the price tendency was again downward except for Lemon for which some holders were asking higher prices, and Chinese Pepperamint which remained steady. English-distilled Cardamom was quoted 75s, per lb. lower. Bourbon Vetivert was marked down 17s. 6d. per lb. In view of the high market value of Otto of Rose producers in Turkey have stepped up production, and it is estimated that this season's yield will be 300 kilos.

U.S. Drug and Chemical Report

NEW YORK AUGUST 5
RESUMPTION of steel mill activity has removed the barriers to shipments of chemicals, including Copper Sulphate and Sulphuric acid, to the steel industry. The movement, however, will not reach its normal proportions much before the end of this month. Most tonnage chemicals continue in good supply with no sign of demand causing any tightness in the market situation.

Sodium antimoniate was priced 3 cents per lb, lower at 32 cents in reaction to the recent reduction in the market value of

antimony metal.

The trade considers that the market for GLYCERIN will continue firm for at least the next month or two. Brazilian MENTHOL dropped further to \$6.00 per lb. (15 cents).

With very little Agar available in market, the price was marked up to \$5 per lb. (15 cents up). Florentine Of Root was reduced to 19 cents per Essential Oils lower per lb. are An at \$1.85 (down 5 cents); Bourbon Ger Ium, \$12.25 (75 cents); Algerian Ganium, \$12.25 (75 cents); Dalmation \$4 \$9.50 (25 cents); and redistilled Pepi Mint oil, \$7.25 (15 cents).

#### Solvents

Acetone, B.S.S.—Drum lots are f  $\pm 112$  to  $\pm 115$  per ton. B.P. is 1s. 5d. lb. for 6-gall. lots.

AMYL ALCOHOL. — Technical grade s £270 per ton.

AMYL ACETATE.—Technical is £266 ton.

DIAMYL PHTHALATE.—Drum lots are per lb.

Isopropyl alcohol.—Prices range from 18s. 3d, to 19s. 9d, per gall., as to quant

Benzene.—Thiophene - free, is 7s. 1 per gall, in 50-gall, barrels and for 1-g: 11s. 6d. Technical is 5s. 7d. per gall, bulk.

#### Pharmaceutical Chemicals

ACETANILIDE.—1-cwt. lots are 2s, 1 per lb, for crystals and 3s, per lb, powder.

AMIDOL.—In 14-lb, lots the price is 1 per lb.; 7-lb., 19s. 6d.

Ammonium carbonate. — B.P. lump £71 5s. per ton; powder, £74 5s. Bid bonate is £47 15s. per ton, all delive free United Kingdom in non-returna packages.

AMPHETAMINE.—Base is 130s. per k and Sulphate, 110s., as to quant d-Amphetamine is from 640s. per kilo

ASPIRIN. — Prices are as follows 5-cwt. lots, 4s. 10d. per lb.; 1-cv 4s.  $10\frac{1}{2}$ d.; 28-lb. and under 1-cwt., fr 5s. 8d. to 6s. 1d., according to pack.

ATROPINE. — Rates per oz. at Alkaloid, 58s. 9d.; 4-oz., 58s. 3d.; 25-c 57s. 9d.; SULPHATE, 48s. 9d.; 4-c 48s. 3d.; 25-oz., 47s. 9d. METHYL NITRA in 4-oz. lots is 78s. 6d. and METH BROMIDE, 76s. 6d. per oz.

Barium sulphate.—1-cwt. lots of B (x-ray) are 1s. 5d. per lb.

Benzoic acid.—1-cwt. lots are 3s, 0 per lb. The Sodium salt is 2s, 10 per lb. in 1-cwt. lots.
Benzocaine. — 28-lb. lots and upway

are 27s, 6d. per lb.

BISMUTH SALTS.—The following are the ces (per lb.) in largest bulk packages:—

-		ı-cwt.	28-lb.	7-lb.
		s. d.	s. d.	s. d.
RBONATE		28 2	28 5	32 10
ICYLATE	•••	24 5	24 8	28 6
BGALLATE		23 6	23 9	27 6
BNITRATE		24 5	24 8	28 6
		0.7	11.	41 41

wt. lots are 3d. per lb. less than the wt. rates.

Borax.—Prices for B.P. grade, for quanies of 1 ton and upwards are as folws:—Granular, £48 10s.; crystals, £51; wder, £52; extra-fine powder, £53 per n. Prices of commercial range from 9 10s. to £44 per ton, as to type, and hydrated borax is now £60 10s, per ton, 1-cwt. bags; carriage paid in Greatitain. Surcharges for small quantities for boric acid.

Boric acid.—Prices for B.P. grade in antities of 1 ton and upwards are as llows:—Granular, £81; crystal, £88; wder, £85 10s.; extra-fine powder, 7 10s. per ton. In 1-cwt. bags; carriage id in Great Britain. Surcharges for haller quantities: Less than 1 ton but t less than 5-cwt., 1s. per cwt.; 3 cwt., .; 1 cwt., 5s.

CALCIUM CHLORIDE. — B.P. crystals are . 0 d. per lb. in 1-cwt. lots and exsiccade 9 d.

CALCIUM SUCCINATE. — Quotations are om 10s. 6d. to 12s. 6d. per lb., as to lantity. Succinic acid is from 10s. 3d.

nantity. Succinic acid is from 10s. 3d. 12s. 3d. per lb.

CARMINE.—Prices are from 75s, to 80s.

er lb., according to quantity.

CHALK.—In minimum 1-ton lots powder

£21 and cones, £22 10s, per ton. Chlorbutol.—28-lb, lots are at the rate £13s, 6d, per lb.

CHLOROXYLENOL.—B.P. quality is quoted t 6s. 9d. per lb. for 1-cwt, lots.

CITRIC ACID.—British makers quote 218s. er ewt. for 1-4-cwt, lots and 213s, per wt. for 5-cwt. Quotations are now net.

CREAM OF TARTAR.—Rates for the home rade are as follows:—10-ton lots, 230s. er cwt.; 1-ton, 231s.; 10-cwt., 232s. Small uantities from 233s. to 235s. per cwt., elivered.

CRESOL.—Price of B.P. quality, ex beechwood, s quoted at from 6s, 9d, to 7s, 6d, per lb. CRESOL.—Price of B.P. quality from dis-

illers is 7s. 9d. per gall. in 5-gall. lots.
DIPHENAN.—Prices range from 58s. to
7s. per lb., according to quantity.

HYDROQUINONE, — Quotations for 1-cwt. ots are 11s. per lb. For smaller quantities riz., 28-lb., 11s. 3d.; 14-lb., 12s.; 7-lb., 12s. 6d.

POTASSIUM ACETATE.—B.P. is 2s. 8d. per b. in 1-cwt. lots.

POTASSIUM PERMANGANATE. — Higher. Rates for material packed in 1-cwt, drums are as follows:—

QUANTITY	B.P., per lb.	TECHNICAL, per cwt.
ı cwt.	1s. 9½d.	1918.
_ 3 cwt.	1s. 9d.	187s.
5 cwt.	1s. 8½d.	182s.
1 ton	1s. 8d.	177s. 6d.
5 tons up.	1s. 7½d.	173s.

PILOCARPINE.—In 25-oz. lots prices are: Alkaloid, 56s. per oz.; Hydrochloride, 46s. per oz.; Nitrate, 42s. per oz.

Salicylic acid.—Prices are: 5-cwt, lots in bulk, 2s, 11½d, per lb.; 1-cwt., 3s.; 56-lb., 3s. 7d.

Tartaric acid.—Lower, Rates for the home trade are now as follows:— 10-cwt. lots, 245s. per cwt.; 5-9-cwt., 247s.; 2-4-cwt., 249s.; 1-cwt., 250s.

Theophylline, — Alkaloid is 39s. 6d. per lb., and Aminophylline (theophylline with ethylenediamine), 40s. per lb., both for 1-cwt. lots.

TANNIC ACID. — Home-trade rate for Levis B.P. (ex ether) in 1-cwt, lots is 6s. 9d. per lb.

#### Crude Drugs

Aconite.. — Spanish napellus is 3s. 9d. per lb., duty paid, ex wharf.

Agar.—Firm. Kobé No. 1 forward is 13s. 6d. per lb., c.i.f.

Aloes.—Prime Cape is about 157s. 6d. per cwt., c.i.f., and spot, 180s. Curação is 360s. per cwt., spot.

Antimony. — English, 99.6 per cent., £237 10s.; 99 per cent., £225 per ton.

Asarœtida.—Persian block is £18 per cwt., duty paid.

Balsams.—Canada: Spot is now 27s, 6d. per lb. for clear bright, paper - filtered; forward, 25s. 6d. per lb., c.i.f.; prompt shipment. Copaiba: Para is offered on the spot at 13s. 6d. per lb., duty paid. Peru is 14s. per lb., duty paid, and 12s. 9d. c.i.f. Tolu (genuine as imported) on the spot is 26s. per lb., and for shipment, 24s., c.i.f.

Benzoin.—No. 1 Sumatra block on the spot is quoted at from £27 10s, per cwt. and for shipment, £25 10s., c.i.f. Siam almonds are from 27s. 6d, to 37s. 6d, per lb., spot., as to size.

BISMUTH. — In minimum 5-cwt. lots METAL is 21s. per lb.

Camphor. — Chinese (B.P.) powder on the spot is 3s. 9d. per lb. in bond;  $\frac{1}{4}$ -oz. tablets are quoted at 5s.  $10\frac{1}{2}$ d. per lb., duty paid;  $2\frac{1}{2}$ -lb. slabs, 4s. 9d. per lb., duty paid.

Cardamoms.—Aleppy greens (new-crop) for October shipment are 14s, 9d, per lb., c.i.f., and spot, 16s, 6d. Aleppy seeds are about 26s., spot, and 21s., c.i.f.

Cascara sagrada.—American bark, 1951 peel, is 265s. per cwt., duty paid. New-crop, 215s., c.i.f.

Cassia bark. — Whole on the spot is 115s, per cwt., in bond; forward, 96s., c.i.f.

CHERRY BARK. — Thin cut natural is from 1s. 10s. to 2s. 2d. per lb., duty paid, as to holder. Rossed is 2s. 6d. per lb., on the spot.

CHILLIES.—Quiet. Sierra Leone on the spot are 200s, per cwt.; for shipment, 160s., c.i.f.; Mombasa, 240s. ex warehouse; for shipment, 210s., c.i.f.

CINCHONA. — Parcels of British East African chips testing 6.28 are offered at 1s. 6d. per lb., and Portuguese West African broken quills testing 7.26 at 1s. 9d. per lb.

CINNAMON. — Ceylon for shipment (c.i.f.): OOOO, 2s.  $4\frac{3}{4}d$ .; OOO, 2s.  $5\frac{3}{4}d$ .; OO, 2s.  $2\frac{3}{4}d$ . OO, 2s.  $1\frac{3}{4}d$ .; firsts, 1s.  $8\frac{1}{2}d$ .; seconds, 1s. 8d.; thirds, 1s.  $6\frac{3}{4}d$ .; quillings, 1s. 4d.; featherings, 1s.; chips,  $5\frac{1}{2}d$ . per lb.

CLOVES.—Firm. Quotations for Zanzibar are unchanged at 9s. 3d. per lb. nominal for spot, and 8s. 1d., c.i.f., forward.

COCHINEAL.—Black is from 7s, 3d, to 7s. 9d, per lb., as to quality, and silver grey, 6s, 3d, to 7s., spot.

COLCHICUM. — Corms on spot are offering at from 2s, 3d. to 3s, 6d. per lb.; seeds: forward offers at 6s, per lb., duty paid.

COLOCYNTH.—Pulp on the spot is 1s. 9d. per lb., duty paid.

Ergot. — Unchanged, Portuguese newcrop offers range from 17s, to 19s, per lb., c.i.f., with no business reported.

GENTIAN.—French natural on spot is 115s. per ewt., and 112s., c.i.f.

GINGER. — African on the spot is 117s. 6d. per cwt., and new-crop, 105s., c.i.f. Spot quotations for Jamaican are from 160s. to 200s. per cwt., as to quality, and from 137s. 6d., c.i.f., for shipment.

Gum acacia, — Kordofan cleaned sorts on the spot are 100s, per cwt.; August-September shipment, 93s., c.i.f.

MENTHOL.—Chinese is firm at 57s. 6d. per lb., duty paid. Brazilian is 45s., duty paid.

Nutmegs. — Quiet. West Indian 80's quoted at 3s. 4d. per lb. on the spot and 2s. 8½d., c.i.f., for shipment. East Indian for shipment, 2s. 6d., c.i.f.

Sarsaparilla. — Unchanged. Jamaican native red is about 2s. 6d. per lb., on the

SEEDS. — Anise. — Turkish, 135s. per cwt., in bond, and 150s., duty paid. A few bags of Cyprus are available at 155s., duty free, Caraway.—Dutch in poor demand at 95s. per cwt., duty paid.

CELERY. — Indian on spot on offer 1s. 10d. per lb. CORIANDER.—Market c tinues quiet. Spot: Morocco, 52s, 6d. 1 cwt., duty paid; Argentine splits, 52s. duty paid. Morocco new-crop is quo 42s. 6d., c.i.f., for August shipme CUMIN.—Market unchanged. Spot Cypr 185s.; Indian, 185s.; Morocco, 200s., d paid. Shipment prices are now firm Cyprus, 155s.; Morocco, 185s. and Ind up to 200s. per cwt. quoted, c.i.f. DIL Indian is 80s., spot London, Fennel Spot: Indian, 200s. per cwt.; Fren 185s., duty paid, and 175s, in bond. Fe GREEK.—Firmer. Morocco, spot Londor Liverpool is 45s. per cwt., duty ps Shipment is quoted at 37s., c.i.f. M TARD.—English, 85s. to 110s., according quality.

SENNA, — Unchanged, Tinnevelly we crop quotations (c.i.f.) are: LEAVE Prime No. 1, 1s. 4d. per lb.; No. 1s. 1½d.; No. 3, 10d.; Pods: f.a.q., minal; hand-picked, 2s. to 2s. 6d., accoing to quality. Alexandria; Manufactur pods, 1s. 6d., c.i.f.; hand-picked, 4s. to 7s., spot.

SHELLAC. — Spot quotations are F.O.T.N., pure, 182s. 6d.; F.O. stands No. 1, 205s.; fine orange, 230s. to 28 per cwt., ex-London warehouse.

TRAGACANTH.—No. 1 ribbon on the spis £135 per cwt.; No. 2, £120; No. 3, £

Waxes.—Bees'.—Dar-es-Salaam on spot is 430s. per cwt.; shipment, Augu September, 375s., c.i.f. Benguela on the si is 400s. per cwt., in bond; shipment, 36c c.i.f. Candellila.—Spot supplies are fered at 645s. per cwt.; no shipment offe Carnauba.—Prime yellow, spot, 1,220s. 1 cwt.; afloat, 1,170s., c.i.f., and for sh ment, 1,150s., c.i.f., per cwt. Fatty gr spot, 900s. per cwt. and 880s., c.i.f., shipment Montan.—Reibeck crude on t spot is 140s. per cwt. Ouricuri.—Si 0.5 per cent. impurities, 700s. per cwt.

#### **Essential and Expressed Oils**

AMBER.—Rectified on the spot is quot at from 1s. 6d. per lb.

ANISE. — Spot supplies are offered 8s. 6d. per lb., and shipment, 8s. 4½d. c.j

Cananga.—Supplies to come forward a quoted at from 60s, per lb. c.i.f. Ja is available on the spot at 70s, per lb.

Caraway.—Quiet, English-distilled offered at 45s.; imported oils are fro 30s. per lb., for spot.

CARDAMOM. — English-distilled is fro 425s, per lb. for spot material, and i ported, 400s. per lb.

CASSIA.—Spot supplies are offered fro 21s, per lb.

CEDARWOOD.—Spot quotations for Ken, are from 4s, 6d, per lb.

CITRONELLA. — Spot prices for original ums are: Ceylon, 4s, per lb.; Forsa, 4s., in bond; Java, 4s. 9d., in bond. prward: Ceylon, 3s. 7d.; Formosa, 6d., and Java, 4s. 4d., all c.i.f., August ipment.

CLOVE.—English-distilled oil is 50s, per , nominal, with imported oils from s. 6d. Madagascar leaf on the spot is s. per lb., duty paid, and 11s. 6d., c.i.f. r shipment.

CUMIN.—Quotations for English-distilled

are about 75s. per lb.

DILL.—English-distilled oil is quoted at out 65s, per lb. for B.P. quality. Imrted oils are offered at 40s, per lb. with ast Indian at 30s., spot.

FENNEL. - Spanish sweet on the spot quoted at from 9s. to 12s. 9d. per lb.

GERANIUM. — Bourbon on the spot is s. per lb.

JUNIPER BERRY. — Imported oils are lered at 22s. 6d. per lb., duty paid. aglish-distilled is offered at 75s. to 95s.

per lb., as to seller and grade.

Lemon. — Sicilian hand-pressed (4 per cent. citral) is quoted at from 40s. per lb., c.i.f.; spot is from 40s. to 50s., according to quantity and holder.

Lemongrass. — Forward quotations are 8s. 1d. per lb., c.i.f. Spot supplies are offered at 8s. 9d. per lb.

Orange.—Spot offers range from 17s. to 19s. per lb.

Otto of Rose. — Turkish is from 400s. per oz., and Bulgarian, 450s., nominal, spot.

PIMENTO BERRY. — English-distilled oil, 's. 6d. per lb. Imported oil is from 57s. 6d. per lb. 55s. per lb., spot.

PINE.—Pumilionis on the spot is quoted at from 18s. to 20s. per lb.; sylvestris is at about 11s. per lb., and Siberian (abietis) is from 18s. to 20s. per lb., duty paid, as to holder.

Vetivert.—Bourbon in original drums is 137s. 6d. per lb., spot.

#### WORLD TRADE

Mexican Export Duties.—The Mexican port surtax of 15 per cent. ad valorem s been reduced by an average of 80 per nt. on about 400 commodities. They inide vanilla pods, essential oils, cameras d perfumes.

Pakistan Foreign Exchange Control.ccept with the sanction of the State ink in Pakistan foreign exchange for imrts will not be released unless a letter credit has been established. The order, nich came into force on July 1, does not ply to chemicals and medicines.

French Imports from Sterling Area .ench importers have been informed of e opening of credits for the import of rtain products from the sterling area tring the third quarter of 1952. Quotas clude: chemical products for pharmautical use, and pepper.

Brazilian Aspirin Imports.—Imports of six-month supply of aspirin are now rmitted by Brazil against payment in in-convertible currencies. The purchases ay be made by direct consumers and re-sellers on the basis of 50 per cent. their annual imports during 1946-49.

U.S. Zinc Oxide Production.—Producon of zinc oxide in the United States iring May was 13,747 tons against ,739 tons in April and was the lowest onthly rate since January 1950 accordg to the Bureau of Mines. Total stocks zinc oxide at the end of the month gained 5 per cent. to 31,980 tons, or to the highest level since December 1942.

Chilean Penicillin Project.—Chile will produce all the penicillin it needs when a new plant built by the National Bacteriological Institute begins operations next year. The centre is being constructed by the Government with United Nations help. Chile now produces only 10 per cent. of her own needs.

Indian Drug Rules Amendment.—The Ministry of Health, Government of India, have amended rule 32 of the Indian Drug Rules, 1945, by the addition of "and conforms to the standards laid down in Part XII" at the end. [The rule previously

"32. Packing and labelling of Imported Drugs. No drug shall be imported unless it is packed and labelled in conformity with the rules in Parts IX and X and Schedule F."

Chemical Industry's Investment Needs. -Capital expenditure totalling 1,000 million D-marks on the West German chemical industry is regarded by the authorities as necessary, according to "Chemische Industrie." Projects totalling 700 million D-marks have so far had to be postponed because 250 million D-marks required from public funds were not allotted. The shortage of investments has put the industry in a precarious position and severely handicapped its ability to compete in export markets, according to the journal.

#### TRADE MARKS

From the "Trade Marks Journal," July 23

For fixatives and aromatic preparations used in the manufacture of perfumery (1) and (3).

CLAIR, 694,300-678,165, by Lautier Fils, Ltd., London, W.4.

For powders and creams for babies, soaps, brilliantine, hair lotions, toilet shampoos, shaving cream, bath salts, non-medicated lotions for the hands and perfumes (3).

BRISTOW'S, 686,082, by T. F. Bristow & Co., Ltd., London, S.W.1.

For detergents (3).

DALEX, 705,276, by Gaskell & Chambers, Ltd., Birmingham. PROMEPHOR, 707,582, by Copras Chemical Co., Todmorden.

For non-medicated skin lotion (3).

COSMEDIN SKIN LOTION, 703,629, by D.D.D. Co., Ltd., Watford.

For shampoos for the hair (3).

CIDAL, 705,545, by J. Bibby & Sons, Ltd., Liverpool.

For non-medicated toilet preparations (3).

AW, 706,829, by A. Wander, Ltd., London, W.1.

For tooth-paste containing peroxide (3).

PEROXOPHYL, 707,571, by Wigglesworth, Ltd., Westhoughton.

For smelling salts (5).

BRISTOW'S, 686,083, by T. F. Bristow & Co., Ltd., London, S.W.1.

For pharmaceutical products, medical and surgical plasters, dressings, disinfectants, insect-destroying and repelling preparations, fungicides and sanitary substances (5).

BENTROFENE, PEVARYL, 698,783, by Cilag Aktiengesellschaft, Schaffhausen.

For medicinal preparations of liver extract for

anæmia (5).

HEPAVIT, 702,953, by Evans Medical Supplies,
Ltd., Liverpool.

For antibacterial preparations (5).

ALTICINA, 705,160, by E. R. Squibb & Sons, Ltd., London, W.1.

For disinfectants and deodorisers (5).

CHLO-MIST, 705,929, by Perce, Ltd., also trading as Chlorophyll Products, London, W.I. For menstruation appliances, sanitary tampons and sanitary towels (5).

MOLISOL, 705,999, by J. M. Mollison & Co., Ltd., Milnrow.

For pharmaceutical preparations (5).

CHLOGEL, 706,569, by Perec, Ltd., trading also as Chlorophyll Products, London, W.I. BRADEX, CIBACTHEN, 707,596-99, by Ciba, Ltd., Basle. SYMPHASTAB, 707,613, by Boots Pure Drug Co., Ltd., Nottingham. REACTHIN, 707,679, by H. Lundbeck & Co. A/S., Copenhagen. RETUBAN, 707,839, by Schering Aktiengesellschaft, Berlin.

For all goods (5).

Device of letter "G," B706,693, by Genatosan, Ltd., Ipswich. AW, 706,830, by A. Wander, Ltd., London, W.I.

#### PRINT AND PUBLICITY

Press Campaigns.—Large-scale advertising Potter's catarrh pastilles and Potter's as remedy will be started in the national Pre September by POTTER & CLARKE, LTD., 1 Road, Barking, Essex,

Distribution in Dance Halls.—About a que of a million samples of Duse chlorophyll twill be distributed by Roberts Anglo-Ame Sales Co., Ltd., 128 Baker Street, London, during August in dance halls in Glasgow, To ham, Manchester, London, Edinburgh, Be Ilford, Leeds, Liverpool, Streatham and Birrham.

Medical Leaflets.—Leaflets, folders and boc are obtainable from manufacturers as I below:—

EVANS MEDICAL SUPPLIES, LTD., Speke, L pool, 19: "Neo-hepatex" (4-p. leaflet).

GLAXO LABORATORIES, LTD., Greenford, Missex: Desk calendar advertising Minadex Adexocal; "Cytamen" (12-p. booklet); "Roup Your Sleeves This Summer?—Flavogel" (c"Mylipen"; "Crystapen"; "Adexolin" (ters).

Medo-Chemicals, Ltd., 178 Pentonville R London, N.1: "Dexobarb"; "Salimed" (ters); S.P.P. (Medo) (syrup pro penicillin) (lea

Pharmaceutical Specialities (May & Barlti, Dagenham, Essex: "Thalazole," "mine" (blotters); "Concise Information Anthisan and Phenergan" (4-p. leaflet); "Struggle Against Sickness—Avomine" (fold "Novarsenobillon—Metarsenobillon" (first ed of 32-p. booklet); "M. & B. Antihistam Throughout the Year" (18-p. booklet); "M. & Barbiturates for Sedation and Hypnosis" (booklet).

ROCHE PRODUCTS, LTD., Welwyn Garden (Herts: "The Roche Courier" No. 6, (4-pp.); "Sedulon" (two 4-p. leaflets); "Vita E Treatment with Ephynal: Intermittent Claution" (folder); "Thephorin" (blotter and leaflet); "Gantrisin" (card); series of sixteen which ten have now been published): "Tak Hæmatologicæ." An announcement concerning series was made in "The Roche Courier," No 1952; "Rimifon, Roche" (a series of three fol reviewing the chemotherapy of tuberculo "Gantrisin, Abstract No. 86" (leaflet).

THE ABBOTT LABORATORIES, LTD., Wadswe Road, Perivale, Greenford, Middlesex: "New proved Formula Cofron Elixir" (card); 4-p. l lets advertising Iberol and Bejectal, Nembutal Abbocillin 800 M, Cofron elixir and Di-paralen

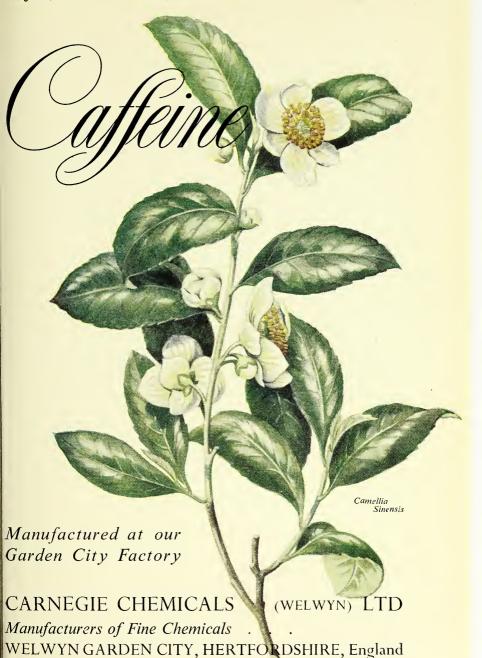
THE BRITISH DRUG HOUSES, LTD., Gral Street, City Road, London, N.1: "Myan Elixir and Tablets," "Anahæmin" (4-p. leafle "Mycil and Mepilin" (blotter).

## COMING EVENT

Wednesday, August 13

LONDON CHEMISTS' GOLFING SOCIETY, Royal M Surrey Golf Club (telephone: Richmond 186 Fixture.

Cables: "Carnechem, Welwyn Garden."



Telephone: Welwyn Garden 506



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